OBAF — GKM

1

3

Dome Temp

Focus .....

Dome Temp.

Hour Angle
End

ome Temp. .....

ocus .....

ome Temp. .....

Transparency Conditions .....

4

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
						David Dunlop Observatory	
						74" Log book	
						Vol #31	
						Plate Nos. 26177 - 26730	

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Date Mon June 25 / 62 **Observer** – F **Julian Day**

continued from Sun June 24 / 62 on Previous Observing book

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I
26177	HD 183794	19 26.1	-2° 19'	I-25	IIaO 8	008	22°.4C	00:46	01:14	1
26178	HD 204038	21 20.8	+33 16	"	"	"	"	01:27	02:29	2
26179	HD 217224	22 54.2	+67 52	"	"	"	"	02:44	03:06	3
26180	HD 217312	22 54.8	+62 32	"	"	"	"	03:12	03:24	4
26181	HD 212937	22 22.8	+77 44	"	"	"	"	03:20	03:58	5
	FOCUS TEST									

Dome Temp. 69 F

Focus 16.46 (22°4 c) 15.61 / 15 / 15.46

Dome Temp.

Transparency Conditions Good

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS					Quality
022 E	-02° 14'	0	6.6	B8	6-6-6	Hd (5B) V822 Aql.	set 2	rens 7?	(12)	8931 8936	l ch-g
01:00 E	+33° 31	0	8.0	A3	6-6-6	F (5B)	set 2	rens 8?	(12)	8938 8950	l ch
01:58 E	+68° 09	0+	7.8	B8	6-6-6	F (5B)	set 2	rens 8!	(12)	8952 8964	good
01:39 E	+62° 48	1	7.8	B0 II	6-6-6	Hd (5B) Field count too fast! rens 04	set 2	rens 8	(12)	8966 8978	l ch guiding
00:32 E	+78° 00	1-	6.5	B9	12-6	B8-B9 Prog	set 3	rens 6	(5)	8986 8991	fine
					20-16		set 8				al ct vi

1 PH loaded
2 plates + 4'o in box

Note: Exposure Meter scale seems to be 1 mag out ∴ 12 counts used on rens 8 instead of 30 - based on time for HD 183794 from previous night

Jerry or Frank. Please check setting scale on exposure meter I'm quite convinced its not set properly.

F

Jerry or Frank:
Vertical-Cross-hair-adjustment on Finder is broken, & Centre of * field is 5' N of crosshairs — Gg

7

Date Tu/We June 26/27 1962 **Observer** vdB **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I
1857-211	α CrB	15 33	+26 51		5/4/14	20		2053	2x	
1858-211	α CrB	"	"		"	14		2110	2x	
1859-211	α Boo	14 13.8	+19 23		4/5/28	14		2130	44→34 2x	
1860-211	M80	16 14.4	-22 53		8/4/40	28		2150	2x+sky	
1861-211	M4	16 20.9	-26 25		8/5/40	28		2223	2x+sky	
1862-211	M19	17 00.1	-26 12		8/5/40	28		2255	2x+sky	
1863-211	NGC 6356	17 21.3	-17 46		8/5/40	28		2327	2x+sky	
1864-211	NGC 6229	16 45.9	+47 36		8/5/40	28		0003	2x+sky	
1865-211	α Lyr	18 35.6	+38 45		4/4/14	20		0044	2x	
1866-211	M56	19 14.9	+30 05		8/5/40	28		0105	2x+sky	
1867-211	NGC 6934	20 31.9	+07 15		8/5/40	28		0140	2x+sky	
1868-211	R Sg	21 10.2	+17 35		7/4/21	28		0215	2x sky 45-34	
1869-211	R Sg	"	"		7/4/33	28		0233	2x 45-34	
1870-211	R 480	19 50.3	+11 32		6/5/33	28		0250	2x 45-34	
1871-211	R 480	"	"		"	"		0259	2x 45-34	

Dome Temp. ..... CO_2 in 2015 EST

Focus ..... V 700V

Dome Temp. .....

Transparency Conditions ... very good, wind strong, Polar air ✓ 8

2230 very fine

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0h34E		15"	2.21	A0V		Ext. ST.	NB Auroral Lines
0 17E		"	"	"		" "	
1h22 W		12"	0.06	K2III p		MKST	
015 E	+15E		8.4	II	⊕	centering OK	
010 W	+010W		7.4	IX	⊕	low stars avoided	CO_2 low
005 W	002 W		8.3	VIII	⊕		
015 W	+15 W		9.7	II	⊕		
125 W	+145 W		10.3	IV	⊕	centering OK	
015 W			0.04	A0V		EXT. ST.	
000	+020 W		9.6	X	⊕		
0:45 E	+025 E		10.0	VIII	⊕	recentered	1/8 moon up 1:45
0:47 E			7.89	F9VI		MKHV	
037 E			"	"		"	
1 04 W			5.78	G2V		MKHV	
1 13 W			"	"		"	

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Date Wed June 27-28/62 Observer L - Cn Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I
26182	HD 142301	15 48.7	-24 57	I-25	IIAoB	Set .008	23.3	21 40	22 10	2
26183	" 146001	16 08.8	-25 13	"	"	"	23.2	22 15	22 55	3
26184	" 165819	18 02.7	-25 29	"	"	"	23.1	23 20	0004	4
26185	" 174853	18 47.5	+13 51	"	"	"	22.8	00 22	0034	1
26186	" 183794	19 26.1	-2 19	"	"	"	22.6	0043.	01 15	2
26187 ~~26187~~	" 190020	19 57.9	+73 21	"	"	"	22.8	01 36	02 06	3
26188	217224	22 54.2	+67°52	"	"	"	22.8	02 19	3 27	3

Focus Test.

at 3:30 EST a satellite ~~Echo~~ transited at declination +55°

Dome Temp. +70°F
Focus 15.49
Dome Temp. +63°F

Transparency Conditions good. 10
at ~ 1:30 seeing poor & very slow counting

ng Time S.T.		Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
10	2	0 23W	-25 09	0	6.2	B8	6-6-6	B8.B9 prog. Sens 7 { 8999 9013	fine
55	3	0 47W	-25 24	0	6.7	B9	6-6-6	" " " " { 9015 9029	fine
04	4	0 03W	-25 30	0	6.7	B8	6-6-6	" " " " { 9032 9046	fine
34	1	0 09E	+13 54	0-1	6.07	B9	6-6-6	" " " " { 9050 9064	fine
15	2	0 09E	-2 14	0-1	6.68	B8	6-6-6	V822 Aql. Hd. Ecl Bin " { 68 82	fine
06	3	0 15W	+73 27	0	8.5	F5	6-	Set 5 F Ecl. Bin. Too Slow? impossible to finish 84	ok
27	3	1 13E	+68 07	0	7.8	B8.	6-6-6	Set 8. F Ecl. Bin Sens 8. 9090 9110 Set 2, Obtained only 20 counts instead of 30 due to dawn.	l ok

26187 is ok. W are the
26188 is covered by Focus Test.

3PH loaded.

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Thu – Fri

Date Jun 22–29/62 Observer (Gn) (Gg) F (I) Gn – F Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.
——	α Cr B				5,4,32	28		21 33		
26187	HD 202253	15 37.8	-12 37	I-25	IIa B	set .008	25.4	22 17	23 25	4
26190	HD 190020	19 57.9	+73 21	I-25	IIa B	.008	25.3	23 44	01 50	1
26191 (	HD 217004	22 54.2	+57 [illegible]	I-25	IIa [illegible]	.008	25.4	02 17	02 55	3
26192 (	HD 206038	21 20.8	+33 16	I-25	IIa OB	.012	25.4	03:04	03 37	2
	FOCUS TEST									

Echo 1? 00:35 EST Dec 40° Trailing 10° N of E Mag 0
2h 39m 5s Dec 48° " due E, + W & E

Dome Temp. 71°F

Focus 15.51

Dome Temp.

Transparency Conditions Fair (Spectrographically). 12

22h – a lot of green + brown quick around the horizon, extinction in S. (cannot see Milky Way)

0h – excellent! above 20°, – horrible below

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	CO_2 – 20:30 REMARKS	Quality
14W						—	
						← Reversed Telescope.	
1 54 W	–10 45	0-1	7.68	F5V	6-6-6	Se HV field checks. set 3	fine
0 02 W	73 26	0+	8.5	F5	6-6-6	F Ecl Bin. Set 5 Seq 9 9150 9270	fine – lp guide
1 55 E	38 07	1+	7.8	F8	6-6-6	F Ecl Bin.	fine
0 24 W	+33 28	2	8.0	A3	4½-4½-	F Ecl. Bin. field checks set 6 Seq 8 9304 9328	fine
							elc to ri
						04:12 set on Jupiter α 22 38.1	
						by sighting δ –08 06	
						extremely clear. slotted in right both.	
		2	PH	Loaded.			
		Flashlight about burnt out.					

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Date Fri/Sat June 29/30 1962 Observer Cn (vdB) Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
26192 II	HD 144844	16 02.8	-23 25	I-25	IIaOB	set .008	28°C	2057	22 34	3

Dome Temp. 81°

Focus 1555

Dome Temp.

Transparency Conditions Rather thick Cirr.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	23 37	0	5.9	B9	6-12	B8-B9 Lt 5 9348 Lens 6 9353	ok
						2 counts in 1h40m — gave up!	
						3 PU lost	

Date Sat/Sun June 30/2nd 1 **Observer** Cu Pu Me vdB **Julian Day** add 57m to these Times

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I
1872-212	αCrB	15 33.0	+26 51		4-6-14	14		21 15	2x	
1873	NGC 6229	16 45.9	+47 36		8-5-41	28		21 47	2x+15m	
1874	M14	17 35.5	-03 15		8-5-41	28		22 18	2x+5m	
1875	M28	18 21	-24 53		8-4-41	28		22 48	2x+5m	
1876	αLyr	18 33.5	+38 45		4-5-14	28		23 24	2x	
1877	"	"	"		"	20		23 40	2x	
1878	Saturn disk				4 5-14	28		00 22	2x	
1879	" br. satel.				7 5 21	28		00 40	2x+5m	
1880	NGC 6934	20 31.4	+07 15		8 5 41	28		01 27	2x+5m	

Echo seen approx 24 00 EDST - Pegasus

Dome Temp. ..... 700 V

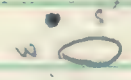
Focus ..... CO_2 1h before obs 114 Visitors showed ε Boo. & M3.

Dome Temp. .....

Transparency Conditions ..... 22h Mun gone low in north, rest of sky good. Strong N wind.

21:45 Sky looks [illegible]
23:00 " " OK

(16)

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1h03W		5"	2.11	A0		Stand [illegible]	
0 17 W	+0.35W	-	10.3	IV	⊕	C	
0h00m 010W			9.4	VIII	⊕		
0h10m E, 0h00m			8.5	IV			
008W		10"	0.04	A0 V		Stand 2d time danger from two isolated cloudpatches	
024W		10"	c 11	"		" 14.m clouds show on trace	
1h10E	-18°22'	-	-	-		danger [illegible] clouds	
0 50E							
0h20W + 0h36W			10.0	VIII	⊕	Sky looks fine, no more clouds	

2350 clouds to 30° alt in SE

Sky some danger from Twilight, but pointing OK cf. 1867

NB. Voltage left on Exp. M. during EMTIRE night

Sunday morning and 57m 12s until 9 E.S.T.

Date Sun. Mon., July 1-2, '62 **Observer** JDF Pu — F **Julian Day** these times are correct.

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H
26193	HD 159358	17 29.2	−11 10	I-25	IIaO	.008	24°	22:29	23:00	1
26194	161 701	17 41.9	−14 42	"	"	"	"	23:15	23:51	2
26195	182 618	19 20.4	+27 53	"	"	"	24°.0	00:02	00:34	2
26196	190020	19 57.9	+73 21	"	"	.016	24°.2	00:58	03:12	3
26197	196513	+20 45.7	+51 32	"	"	.008	"	03:23	03:51	4
26198	199578	+20 53.1	+50 41	"	"	"	"	03 26	03:46	4
	FOCUS TEST									

26197 has faint companion ½′ away from it.

Bar for adjusting δ slow motion is close to end. It should be run back before starting — only noticed it as I was leaving F.

Dome Temp. 70° F

Focus 15.49

Dome Temp.

Transparency Conditions Very poor

Considerable cloud, especially in south & west

00:15 Improving esp in N & zenith.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS				Quality
00h 12m E	−11° 16′	0	5.51	B8	6+6+6	B8-B9 Program	Both clocks advanced 57m	7	9369 9381	
00 28W	−14 45	0⁻	6.05	B9	6+6+6	ditto	set 5	7	9383 9395	
00 26E	+27 58	0	6.31	B8	6+6+6	"	set 8	7	9398 9410	
00 36W	+73° 27	0+	5.5	F5	4+2+3	F Cd Bin (SB)	set 3	9	9413 9533	
—	+51 47	1⁻	6.26	B9	6+6+6	B8-B9 Program	set 2	7	9539 9551	
01 13W	+50 54	1	6.30	B8	6+6+	" "	set 5	7	9554 66	
							set 8½			

4 PHs Coated WITH .03 a0 Plates

Only Foot switch is faulty. Old switch works OK F.

R.A. clamping switch seems faulty — unclamping s.k. Usual manual adjustments made, but to no avail — JDF

E.S.T 00 Echo reported seen in SE from Scarboro going N.W. ??

Echo reported seen in S.E. from Pμ Scarboro at about 22:20 EST.

19 July

Date ~~JUNE~~ 3-4/62 Observer S-L-Sq-Hr Julian Day

Plate No.	Object	R.A. ~~1900~~ 1960	Declination ~~1900~~ 1960	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.		Hour Angle End
26199	NGC 6218	16 45.1	-01 53	NEWT	103aO			21 26	21 28	1	00 48E
26200	" 6254	16 55.0	-04 03	"	"			21 32 10	21 34 10	2	0 52E
26201	" 5634	14 27.5	-05 48					21 42	21 52	1	0:54W
26202	" 5897	15 15.2	-20 51	"	"			21 58 30	22 08	2	0 22W
26203	" 6402	17 35.5	-3 13	"	"			22 21 30	22 31	1	0:35E
~~26204~~	6356	17 21.3	-17 47	"	"						
26204	" 6402	17 35.5	- 3 13	"	"			22 41 32	22 46 32	2	0:20E
=	Seq 61	17 01.4	+29 55	"	"			22 51 44	22 56 44	2	0:25W
26205	61	17 01.4	+29 55	"	"			23 00 16	23 07 16	1	0:37
	NGC 6402	17 35.5	- 3 13	"	"			23 11 34	23 18 34	1	0:12
26206	" 6356	17 21.3	-17 47	"	"			23 22 32	23 30 32	2	0:34
26207	" 6402	17 35.5	-3 13	"	"			23 46 57	23 54 57	1	0:13
	Seq 61	17 01.4	+29 55	"	"			00 03 32	00 11 32	2	0:39
26208	NGC 6356	17 21.3	-17 47	"	"			00 18 50	00 26 50	1	0:3
26209	6649	18 31.2	-10 30	"	"			00 32 30	00 44 30	2	0:04
26210	6402	17 35.5	- 3 13	"	"			00 48 20	00 58 20	1	0:5

Dome Temp.
Focus
Dome Temp.

Dome Temp. ADD 6' TO DEC. READING Transparency Conditions

Focus

Dome Temp.

...ing Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	EXP T ~~Comp.~~	REMARKS	Quality
129	0048E					2m	FOCUSSED ON α SER.	
34	0052E					2m		
52	0154W					10m		
	0122W							
31	0035E					10	FOCUSSED ON λ OPH NOT CHANGED	
	0020E					5m	Golf lights out at ~ 22h 30m	
	0025W					5m		
	0025W					7m		
	0012W					7m		
	0038W					8m		
	0049W					8m		
	0139W					8m		
	0135W					8m		
	0049W					12m		
	0152W					10m	Focussed on δ Aql (focussed improved)	

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July

Date ~~June~~ 3-4/62 **Observer** S-L-Sq-Hr **Julian Day**

Plate No.	Object	R.A. ~~1900~~ 1960	Declination ~~1900~~ 1960	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
26211	Seq 61	1701.4	+29 55	NEWT	103aO			01 14 50	01 22 50	2
-	NGC 6934	2032.2	+7 16	"	"			01 28 10	01 36 10	2
26212	6838	1951.7	+18 39	"	"			01 44 49	01 47 49	4
26213	6626	1822.1	-24 54	"	"			015436	02 00 36	2
26214	6656	1833.9	-23 58	"	"			020620	021020	4
26215	6712	1850.8	-8 46	"	"			021540	02 23 40	
26216	6934	2032.2	+7 16	"	"			0228	02 40	
26217	6838	1951.7	+18 39	"	"			024500	02 48 00	
26218	7089	2131.4	-01 00	"	"			025515	025545	
26219	21h 46.3 29° 32'	2146.3	+29 32	"	"			0306	0311	

Add 6' to der rdg

Dome Temp. ....

Focus .....

Dome Temp. ....

Transparency Conditions .....

ng Time S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Exp T ~~Comp.~~	REMARKS	Quality
22 50 2	0252 W					8m		
36 5	0022 E					8m		
47 49	0025 W					3m		
00 3 2	1 02h08m W					6m		
10 20	—					4m		
02 23 40	2 02h03m W					8m		
02 45	100 38 W					12m		
02 45 0	01 25 W					3m		
25 45	00 05 E					½m		
31	0010 E					5m		
							This night is an excellent test for fogging from ground light. Transparency perfect and sky clear except for slight haze close to horizon. Seeing very good most of time. HSH	

Date July 4-5/62 **Observer** S-Sq-Hr **Julian Day**

Plate No.	Object	R.A. ~~1900~~ 1960	Declination ~~1900~~ 1960	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I
26220	NGC 6218	16 45.1	-01 53	Newt	E103aO			22 37 40	22 41 40	1
26221	6254	16 55.0	-04 03	"	"			22 46 10	22 50 10	2
26222	6402	17 35.5	-3 13	"	"			22 55	23 07	1
26223	6093	16 14.7	-22 54	"	"			23 15 00	23 21 00	2
26224	6356	17 21.3	-17 47	"	"			23 25 10	23 33 10	1
26225	6402	17 35.5	-3 13	"	"			23 37 00	23 45 00	2
	Seq 61	17 01.4	+29° 55	"	"			23 50 45	23 58 45	
26226	6356	17 21.3	-17 47	"	"			00h 05	00 15	1
26227	6544	18 05.4	-25 01	"	"					
26227	6402	17 35.5	-3 13	"	"			00 21 45	00 35 45	2
26228	6544	18 04.9	-25 01	"	"			00 42 15	00 54 15	1
26229	6934	20 32.2	+7 16	"	"			00 59	01 11	2
26230	6838	19 51.7	+18 39	"	"			01 15 40	01 19 40	1
26231	6626	18 22.1	-24 54	"	"			01 25 40	01 31 40	2
26232	6656	18 33.9	-23 58	"	"			01 36 30	01 40 30	1
26233	6712	18 50.8	-8 46	"	"			01 48 15	01 56 15	2

Add 6′ to dec readings

Dome Temp. .....

Transparency Conditions .....

Focus .....

FROM TIME OF 1ST PLATE GOOD LIGHTS OUT

Dome Temp. .....

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Ex.T. Comp.	REMARKS	Quality
00 30W					4m	FOCUSSED ON ARCTURUS; FOCUS	
00 25W					4m	HARDLY CHANGED FROM LAST NIGHT	
00 05W					12m	Focussed on γ OPH (NO CHANGE)	
01 39W					6m		
—					8m		
10h 38W					8m		
01 30W					8m	Lights at cement plant out at 2358	
01 23W					10m		
—					14m		
01 19W					12m	Possible aircraft in field?	
00 52E					12m	Sky in this region much darker than	
00 02E					4m	in previous region.	
01 39W					6m		
01 40W					4m	Poor sky in this area	
00 35W					8m	Focus on θ Aql - no change (very good)	

Date July 4-5/62 **Observer** S-Sq-Hr **Julian Day**

Plate No.	Object	R.A. ~~1900~~ 1960	Declination ~~1900~~ 1960	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.
26234	Gaseous Neb. (Perner 23)	1945.1	+25 06	NEWT	103aO			02 11	02 17	1
26235	NGC. 6934	2032.2	+07 16	"	"			0223	02 35	2
26236	6838	1951.7	+18 39	"	"			0239 55	0243 55	1
26237	9	2146.3	+29 32	"	"			0253	0303	2
26238	NGC 7089	2131.4	-01 00	"	"			030849	030919	1
~~26239~~										

Add 6′ to dec readings

Dome Temp. .....

Transparency Conditions .....

Focus .....

Dome Temp. .....

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	~~Comp.~~ Ex.T.		REMARKS	Quality
0105W					6m		Guided by Sq	
0032W					12m			
0126W					4m			
0010E					10m		Guided by Sq.	
0008W					½m			
							Totally cloudy first hour of night - then gradually clearing, but neither transparency nor seeing as good as last night. MSM.	

Date July 5-6/62 **Observer** S-Sq-Hr **Julian Day**

Plate No.	Object	R.A. ~~1900~~ 1960	Declination ~~1900~~ 1960	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I
26239	NGC 6218	16 45.1	-1 53	NEWT	103aO			21 54 55	21 56 55	1
26240	" 6254	16 55.0	-4 03	"	"			22 00 50	22 02 50	2
26241	" 6366	17 25.6	-05 02	"	"			22 52	23 04	1
26242	" 6535	18 01.8	-00 18	"	"			23 09 30	23 23 30	2
26243	Gascoigne No Ferner 28	20 16.3	+39 13					23 36	23 46	1
26244	Ferner 27	20 11.1	+35 49					00 03	00 08	2

Add 6' to declination readings

Dome Temp. .....

Transparency Conditions .....

Focus .....

Dome Temp. .....

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	~~Comp.~~ Exp time	REMARKS	Quality
00 15 E					2^m	Focussed on α Ser - focus very good	
0020 E					2^m	Heavy haze Ready to start at 21:15 [illegible]	
0017 W					12^m	waited for clouds to come [illegible]	
0005 E					14^m	Very poor sight. and hazy. [illegible]	
0153 E					10^m	Guided by Sg	
0126 E					5^m	Guided by Sg	
						Proper motion [illegible] Arcturus, almost [illegible], cloudy	

Date July 5-6 / 62 **Observer** S-Sq-Hr **Julian Day**

Plate No.	Object	R.A. ~~1900~~ 1960	Declination ~~1900~~ 1960	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H

Add 6′ to declination readings

Dome Temp. .....

Transparency Conditions .....

Focus .....

Dome Temp. .....

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	~~Comp.~~ Exp. time	REMARKS	Quality

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6-7

Date Fri/Sat July 8/9 1962 **Observer** [illegible] **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
1881-213	α Boo	14 13.8	+19 23		5/3/24	28		2047		
1882	α Boo	14 13.8	+19 23		5/4/24	20		2058		
1883	δ Boo A	15 14.0	+33 27		6/4/24	28		2113		
1884	δ Boo A	15 14.0	+33 27		6/4/24	28		2123		
1885	ρ CrB	15 59.5	+33 26		6/5/24	28		2136		
1886	ε CrB	15 55.9	+27 00		6/5/24	20		2150		
1887	ε CrB	15 55.9	+27 00		6/5/24	28		2200		
1888	R 334	16 28.6	+04 19		7/5/24	28		2214		
1889	R 334	16 28.6	+04 19		7/5/36	28		2226		
1890	72 Her	17 19.2	+32 32		7/3/24	28		2241		
1891	99 Her	18 05.5	+30 33		7/3/24	28		2255		
1892	99 Her	18 05.5	+30 33		7/3/24	28		2306		
1893	R 441	18 14.7	-03 02		7/4/24	28		2320		
1894	R 441	18 14.7	-03 02		7/4/24	28		2330		
1895	16 Cyg B	19 40.9	+50 25		7/4/24	28		2349		
1896	"	"			"	"		2357		

Dome Temp. ..... NO CO_2 USED 700V

Focus .....

Dome Temp. .....

Transparency Conditions ..... Not pe but probably good enough for ▲ photometry

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Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1 18 E		15"	-0.06	K2III		HV Δ	
1 29 E		13"	"	"		"	
0 41 E		10"	3 50	S8III		MK Δ	
0 51 E		10"		"		"	
0 22 E		5"	6 0	S2V		MK Δ	
0 40 E		5"	4 15	K3III		MK Δ	
0 50 E		5"		"		"	
0 12 E		5"	7.3	F9V		HV Δ	
0 44 E		5"				"	
0 07 E			6 0	S0V		HV Δ	
0 22 E			5 0	F7V		MK Δ	
0 11 E						"	
0 10 E		4"	6 0	S8III		HV Δ	
000							
1 06 E			6 20	S5V		MK Δ	
0 58 E				"			

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July 6-7

Date Fri/Sat ~~June~~ 8/9 1962 **Observer** — Cn **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H
26245	HD 204038	21 20.8	+33 16	I-25	103aO	.008	22.1°	00:59	02:34	1
	Eta I	02h 05m.5	δ +48°							
		15° North of West	±	15' South of East						

Dome Temp. 66°

Focus 15.46

Dome Temp.

Transparency Conditions good

01h 30m seeing poor

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
00 7W	+33 28	0	8.0	A3	6-6-6	F ed. Binary counting stars [illegible] after 22 counts Set 5 Lens 8 9571 9696	
						02:45 dec wouldn't readings - called Guy - fixed 03:25 - lower coming - clouds up light clouds apparent at horizon	
	3PR	loaded	1320				

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July 7-8 ✓ ✓

Date Sat/Sun June 9/10 1962 **Observer** I. vdB **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	Pl	Hour Angle End
1897-214	NGC 6229	16 45.9	14 73 6		8/5/40	28	22	47	2 × 1 5m		0 53
1898	M28	18 22.1	−24 54		8/5/40	28	23	21	2 × 1 5m		
1899	α Lyr	18 35 6	+ 38 45		4/4/14	28	23	53	2 ×		
1900	M56	19 14 9	+ 30 05		8/6/40	28	00	18	2 × 1 15m		
1901	M71	19 51 7	+ 18 40		8/6/40	28	00	55	2 × 1 25m		
1902	M71	19 51 7	+ 18 40		8/6/40	28	01	35	2 × 1 30m		
1903	NGC 6934	20 31 9	+ 07 15		8/5/40	28	01	59	2 × 1 5m		

Dome Temp. .....

Focus .....

Dome Temp. .....

CO_2 in 2100

V = 700

Transparency Conditions .... Tropical air, sky light, no clouds, looks pe (probably) : 36

180 visitors & Hershkovitz

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0.53W	+01 0S		10.3	IV		⊕	
0.10E	+01 2E		8.5	IV		⊕ Perhaps a little [illegible] on 'light' night	
0.10W		<5"	0.04	ΔOV		Standard 0005 th clouds 30° ALT in S.	
0.05E + 0.10W			9.6	X		⊕ clouds [illegible]	
0.05E + 1.5W			8.3	—		⊕ a few bright stars around [illegible] clouds [illegible]	
0.35W			8.3	—		⊕ sky looks OK	
0.29W			10.0	VIII		⊕	

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Date Mon. July 9-10/62 **Observer** Hd Pm – F **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
		(1961)	(1961)		103aO					
26245	HD 114762	13 10.5	+17 44	I-25	~~II aO~~	.008	22.0 °C	20 51	21 51	2
		(1960)	(1960)							
26247	HD 204038	21 20.8	+33 16	"	"	"	22.0	22 10	03 [illegible]	3
26248	HD 140020	19 57.9	+73 21	"	IIaO	016	22.0°C	23 31	01 21	1
26249	HD 172283	18 37.5	+62 06	"	[illegible]	0[illegible]	21.9°C	01 [illegible]	[illegible]	4
26250	HD 192126	[illegible]	[illegible]	"	IIaO	[illegible]		01 [illegible]	01 57	[illegible]
26251	HD 217224	22 54.2	+67 52	"	"	"	21°9 C	02:09	03 03	3
26252	HD 187235	19 45.9	+38 09	"	"	"	21°6C	03 21	03 31	4
26253	HD 192276	20 09.0	+67 26	"	"	"	21°5C	03 37	04 02	4
	Focus Test									

Dome Temp. .....

Focus .....15.44.....

Dome Temp. .....

Transparency Conditions ... Good
00:05 Clouds in NW.
00 40 few; cirrus scattered over the sky
02 00 Perfect!

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS			Quality
W 3 33	+17 49	1-0	7.9	F9 V	6-6-6	S 2 HV		9604 9640	good
E 2 54	+33 29	1-0	8.0	A3	6-6-6	F Ecl. Bin.		Seq 5 9643	fair
W 0 17	+73 29	0+	8.5	F5	2-4-3	F Ecl Bin (field as given)	set 3	seq 8 9675 9705	fine.
W 0 15	+52 07	0+	5.8	B9	6-6-6	28-9 Prog	set 3	seq 6 9712 9713	
W 02 06	+41 22	0+	5.9	B9	6-6-6	"	set 3	seq 8 9719	Hazy
E 01 00	+68° 10	0+	7.8	B8	6-6-6	F Ecl Bin (field as given)	set 3	seq 8 9721 9753	Hazy
W 02 38	+38 17	0+	5.6	B9	9-9	88-9 Prog (w star)	set 3	seq 6 9755 9760	Hazy
W 02 45	+47 35	0	6.6	B8	6-6-6	B8-D9 Prog (field checks)	set 6	seq 6 9761 9766	Hazy
					20-16		set 10		
4 PM - Cracked II a 0 B - 4 hr boor.					→	Harry #26269 broken [illegible] - [illegible] [illegible] 02:50 Moon rises NNE to S - 20° arc.			
	Ecl. [illegible]		21	[illegible]	[illegible]	WS 1 - ENE [illegible]			
			23:38	EST		W - ESE [illegible]			
	→ [illegible]	[illegible]	[illegible]	[illegible]		side F			

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Date Wed Friday 11-12/62 **Observer** Pu – Slt **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.
		(1961)	(1961)							
26254	HD 114762	13 10.5	+1744	I-25	IIaOB	008	26.9	~~20:53~~		1
								21:00	22 16	
26255	HD 159358	17 29.2	-11 10	"	IIaO B	008	26.9	22 23	22 41	2
26256	HD 161701	17 41.9	-14 42	"	IIaO B	"	26.9	22 51	23 17	3
26257	HD 170200	18 23.1	+6 08	"	"	"	27.0	23 27	23 59	4
26258	HD 183227	19 23.4	+2 43	"	"	"		00 05		1

Dome Temp. 78

Focus 15.54.

Dome Temp.

Transparency Conditions Very poor fog + clouds

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS		Quality
	+17 43		7.9	F9 V	6	ott's 3e HV focus not set.	~~Aens 8~~ 9768	
							Aens 8 9771	
W 4.06		2			6-6-6	set 8 clouds	9805	
W 10m	-11 15	1	5.51	B8	6-6-6	" 5 B8-B9 prev.	aens 6 9807	
W 32m	-14 44	1	6.05	B9	6-6-6	" 5 B8-B9 "	9813.	
W 32m	+06 07	1	5.57	B8	6-6-6	" 5 B8-B9.	aens 6 9816	
							9822	
							9823	
							aens 6 9828	
							9830	
			~~5.90~~	~~B9~~	~~6~~	~~" 5 B8-B9~~	~~aens 6~~	

00 15 cloud front approached from N-W. - seemed like rain & closed up.

3 PH's loaded.

Eclipse I closed window 9:58 EST WSW - ENE scattered

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Date Th-Fri July 12/13 62 **Observer** F - HV **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I
20258	HD 19352	17 29.2	-11 10	J-25	IIaO	008	25.3	21 47	22 03	2
20259	HD 161701	17 41.9	-14 42	"	"		"	22 13	22 37	3
20260	HD 204038	21 20.8	+33 16	"	"	"	25.2	22 50	01 12	4
20261	" 190020	19 57.9	73 21	"	"	016		01 35*	[illegible]	1
20262	" 209-8B	21 57.1	+10 29	"	"	008	25.0	03 11	03 37	2
	Thomas Vol. 3, 8.									

Dome Temp. 71° F

Focus 15.51 25.3C

Dome Temp.

Transparency Conditions poor around horizon OK for zenith. Moon very bright

23h = 0h log atom in F

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Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
~00 09 E?	-11 14	0-	5.5	B8	6-6-6	set 3 B8-B9 Prog. rem 6 5 9836 9839	[illegible]
00 03 E	-14 44	0	6.0	B9	6-6-6	set 5 B8-B9 Prog rem 6 5 9841 9846	[illegible]
01 06 E	+33 30	0+	8.0	A3	6-6-6	set 5 F Ecl Bin Field Check. 135 rem 9 9851 9962	[illegible]
—	+73 29	1	8.5	F5	3-6	" 5 F-Ecl. Bin AKWAP #9 9963 00 18	[illegible]
00 42 W	+10 45	0-1	6.31	B8	6-6-6	" 5 B8-B9 Prog. #6 0020- 0027	[illegible]
					20/16	" 9	[illegible]
						2 Pitt. loaded Ie.Ot. in frig.	
						NEW BATTERIES FOR DOME FLASHLIGHT NEEDED.	
						2 [illegible] - [illegible] [illegible] [illegible] [illegible]	[illegible]
						E. L. [illegible] - by phone at ~ 4.10 N.I.E	

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Fri - Sat

Date July 13/14 1962 **Observer** — Co **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H
26263	HD 202862	21 13.6	-42 16	I-24	IIaoB	Lat .002	22.5	01:37	01:49	3
26264	HD 219617	23 15.2	1961 -14 07	I-24	IIaoB	.012	22.4	02:21	03:45	4
	Focus Test	0713								

Dome Temp. 63°

Focus 15.46

Dome Temp.

Transparency Conditions clouds low in south, 8 clear at zenith, west 03hr started overcast

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
00 31 E	+42 30	0	6.04	B8	6-6	B8-G9 Program lat Dent 0031 43	good
00 21 E	-14 03	0	8.6	ed F8	4½-4-4	ade HV Main field plotted lat 9 0046 190	WD CMP line
					4-6	lat 9	
						STAR is HD 219702 2312.0 -1403	KO
						at a 2.732 but cannot reach guiding exposure	
						3PM, looked New batteries for dome flashlight needed.	

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Date Sat-Sun July 14/15 **Observer** MO F-F **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.F
26265	HD 170200	18 22.1	+06 07	I-25	IIaO	008	23°.5C	22 57	23 11	1
26266	170973	18 37.1	+03 25	"	"	"	23°.5C	23 16	23 46	2
26267	171247	18 28.6	+08 12	"	"	"	23°.6C	23 50	00 14	3
26268	190020	19 57.9	+73 21	"	"	016	23°.5C	00 26	02 26	4
26269	217112	22 54.2	+12 32	"	"	008	23°.4C	02 37	03 15	1
26270	217224	22 54.2	+17 52	"	"	016	22.9	03 20	04 06	2
	FOCUS TEST					016				
						008				

Dome Temp. 64° F

Focus 13.48 23°S 63 45 58

Dome Temp. 59°F

Transparency Conditions ~~Fair~~ Poor - Hazy & clouds

~~14~~ 170 Visitors showed 5 Mar

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS					Quality
00 03W	+06 08	0⁻	5.57	B8	6-6-6	set 3	10-4 Pkg	(Fill blanks)	exs 6	0203 0208	fine
00 29W	+03 36	0	5.32	B9	6-6-6	set 3	"		exs 6	0209 0214	fine
00 55W	+08 13	0⁻	6.21	B8	6-6-6	set 3	"		exs 7	0216 0228	fine
01 41 W	+73 28	0⁺	8.5	F5	3-3-3	set 2	F 6.2 Bin	(Fill blanks)	exs 9	0232 0234	fine
00 27 E	+62 49	0-1⁺	7.8	B0 IV	6-6-6	set 3	Lid (SB)	(" ")	exs 8	0238 0239	fine
00 20W	+58 10	1-2⁻	7.8	B2	3-3-	set	F 6.2 Bin	(")	exs 8	0269 0273	fine
					10-8	set 6					
					20-16	set 9					
						3 PHO Graded					
						Dome Flashlight needs new batteries,					
						0h ends later					

Sun

Date July 15-16/62 **Observer** — Hr **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp. 22.4	Starting Time E.S.T.	Ending Time E.S.T.	P.H
26271	HD 204038	21 20.8	+33 16	I-25	IIaD	.008	22.2°	0049	0400	3
	7 —	7.4	573							

Dome Temp. +65°F

Focus 15.46

Dome Temp.

Transparency Conditions Occasional Patchy Cirrus

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
[illegible]	30 31	0	8.0	A3	6-6-6	Set. 5 Ecc Bin (F.) #9 0403 0507	fine
					29/6		
						w. P. H. Bonnell	

Date July 16-17/62 **Observer** Hd Pa - F Pa **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.F.
26272	HD 144334	16 00.3	-23 20	I-35	IIaOE	.008	24.3	20:48	21:18	4
26273	HD 147850	16 17.5	-1 51	"	"	"	24.1	21 24	21 42	1
26274	HD 152909	16 51.2	-1 33	"	"	"	24.1	21:47	22 27	2
26275	HD 159358	17 24.2	-11 10	"	"	"	24.2	22:34	22 48	3
26276	HD 161701	17 41.9	-14 42	"	"	"		22 53	23 13	4
26277	HD 170200	18 23.1	+06 08	"	"	"	24.2	23 19	23 27	1
26278	HD 170972	18 27.1	+03 35	"	"	"	24.0	23 32	23 54	2
26279	HD 171247	18 28.6	+08 12	"	"	"	24.0	23 57	00 14	2
26280	HD 185330	19 21.5	+38 10	"	103aO	"	24.3	00 25	00 42	1
26281	HD 187235	19 41.9	+28 09	"	"	"		00 58	01 18	1
26282 F	Focus Test			"	103aO	.008	21.9	01 25		1
								2	IIaOE	PH
		1:20	Clouds	Solid	moving	for	N			
			closing	up						
								2:20	Pulsation	
Flashlight	[illegible]	[illegible]	[illegible]		GERRY:	[illegible]	[illegible]	IIaOE	[illegible]	

Dome Temp. 70F

Focus 15.49

Dome Temp. 63°F

Transparency Conditions

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS		Quality
00:35	W -23 31	0	5.9	B8	6-6-6	out 5 B8-B9 prog.	slice 6	0519 0522 fine
W 0 40	-2 02	1	6.09	B9	6-6-6	Set 5 " "	slice 6	0523 0527 fine
W 0 58	-19 31	1	7.0	B8	6-6-6	" 5 " " Brighter of pair	slice 7	0526 fine
W 0 36	-11 16	1	5.57	B8	6-6-6	" 5 " "	slice 6	0541 0545 fine
W 0 48	-14 45	1-2	6.05	B9	6-6-6	" 5 " "	slice 6	0545 0550 fine
W 0 22	+6 09	1	[illegible]	B8	6-6-6	Set 5 " "	slice 6	0556 0558 fine
W 0:45	+03 36	1-2	6.32	B9	6-6-6	Set 5	slice 5	0562 [illegible] fine
W 0:03	+0 11	0-1	6.21	B8	6-6-6	Set 8	slice 5	[illegible] fine
W 0 37	+38 17	1	6.3	B8	6-6-6	out 3 NB out [illegible]	slice 5	[illegible]
W 0 42	+38 17	2	5.6	B9	9-9	Set 6		fine
					20/16	Set 5		[illegible]
Packed.								
[illegible]	[illegible]	[illegible]			Ecl.	I [illegible] ~ 9:55 W-E		
					L.	I [illegible] ~ 11:55 W-ESE		
	FRANK!							

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Date July 18-19/62 **Observer** Hd — oft **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	
26282	HD 144334	16 00.2	-23 20	I-25	II AC5	.022	24.8	20:44	21:[illegible]	3
26283	HD 170973	18 27.1	+03 35	"		"	24.9	21:47	22 09	4
26284	HD 171647	18 28.6	+08 12		IaO		24.8	22:14	22 32	1
26285	HD 172283	18 37.5	+52 06		IIaO		24.8	22 45	22 52	2
26286	HD 183399	19 26.1	-2 17		IIaO		24.9	23 06	00 14	3
26287	HD 183227	19 23.4	+2 43	"	"	"	24.8	00 22	00 38	4
26288	HD 185330	19 33.5	+38 10	"	"	"	24.8	00 48	01 02	1
26289	HD 192276	20 09.0	+47 26	"	"	"	24.8	01 14	01 36	2
26290	HD 217224	22 54.2	+67° 52	"	103aO	012	24.8	02 05	02 59	4
26291	HD 219749	23 13.2	+44°57	"	IIaO	.008	24.8	03 14	03 30	3
26292	HD 224404	23 52.5	+59 28	"	"	"	24.8	03 40	3 58	1
	Focus test									

Dome Temp. 72 F

Focus 15.51

Dome Temp.

Transparency Conditions Very poor

.52

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
W 0 56	−23 31	0	5.8	B8	6-6-6	B8-B9 prog.	
E 0 53	+03 36	0	6.32	B9	6-6-6	set 6 " "	
E 0 30	+08 11	0	6.21	B8	6-6-6	set 5 " "	
E 0 16	+52 08	2	5.83	B9	6-6-6	" 5 " "	
W 0 13	−00 14	0	6.25	B5	6-6-6	" 5 7 Sel Bin	
0 41 W	+02 49	0	5.90	B9	6-6-6	set 5 B8-B9	
0 55 W	+38 16	0-1	6.33	B8	6-6-6	" 5 "	
0 44 W	+47 36	0	6.55	B8	6-6-6	" 5 "	
0 28 E	+69 07	0⁻	7.8	B8	6-6-6	" 5 F Sel Bin	
0 17 E	+45 14	0	6.30	B9p	6-6-6	" 5 B8-B9	
0 28 E	+59 46	0⁻	6.37	B8	6-6-6	" 5 "	
						" 9	

Ecl. I ~ 10 W - E

1 PH Searched with IIaO

53

Thu / Fri

Date Jul 19-20/62 **Observer** Gg - F **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
26293	HD170973	18 27.1	+03 35	I-25'	IIa-O	.08	25C	22:51	23 21	2
26294	HD171247	18 28.6	+08 12	"	"	"		23:23.5	23:43.5	3
26295	HD183227	19 23.4	+02 43	"			24.8	23 49	0 21	4
26296	HD185220	19 33.5	+18 10	"	"	"	24.8	0 30	01	1
26297	HD192276	20 09.0	+47 26	"	"	"	24.7	01 17	01 27	2
26298	HD190020	19 59.9	+32 31	"	"	.016	24.8	01 33	1C	3

Dome Temp. 71F

Focus 15.51

Dome Temp.

Transparency Conditions Scattered Cloud all over.
better 23:30
Worse 23:55, rising from W.
01.00 [illegible] Cloud (Thinned)
01.10 Increasing!

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 23 W	+03:36	0	6.3_2	Bg	6-6-6	B8-9 Prog Sam 6 954	good
0 45 W	+08 12	0	6.21	Bg	6-12	" 57	
						59	
						54.5	fair
						55	
0 28 W	+02 49	0	5.9	Bg	6-6-6	" .5	good
						0972	
1 03 W	+38 16	0⁻	6.3	[illegible]	6-6-6	" field [illegible]	fair
						0978	
1 01 W	+47 36	0⁺	6.6	B2	6-6-6	" field [illegible] Sets	fair
						0973	
						0965	
[illegible]	+22 32	1-2	8.5	F5	3-5	F8 [illegible] Focused Telescope	weak
							focus off
					1.00	[illegible]	
					2.40	Clouded [illegible]	
	2 PM.	Cooled		II O			

Thu July 19 Too Cloudy at 21:30.
Opened up at 22h, Fuse for Shutters blew.
There is only ONE good Fuse Left — Gg.
40% Cloud at 22h.

55

Date Sat-Sun July 21/22 **Observer** ML CW - Cx **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I
26299	HD 174853	18h 47m.5	+13° 51′	I-25	IaO	.008	24°C	22h 42	22h [illegible]	4
26300	HD 175744	18h 51.7	+17 52	I-25	IaOb	.008	24°C	23h 15	23h [illegible]	2
26301	HD 181878	19h 16.9	+35 00	I-25	IaOb	.008	24.1	23h 40m	23h [illegible]	3
26302	HD 182618	19h 24.4	+27 53	I-25	IaOb	.008	24.2	00h 00m	00h 18m	4
26303	HD 209288	21 57.1	+10 29	I-25	IaOb	.008	24.2	00h 33m	00h 56m	1
26304	HD 202862	21 13.6	+42 16	I-25	IaOb	.008	24.2	01h 00m	01h 21m	2
26305	HD 212937	22 22.8	+77 44	I-25	IaO	.008	24.2	01h 39m	02h 20m	3
26306	HD 219119	23 13.2	+44 57	I-25	IaOb	.008	24.1	02h [illegible]	02h 57m	4
26307	HD 224404	23 52.5	+59 28	I-25	IaOb	.008	24.1	03h 03m	03h 38m	1
	Focus Test	PB								

Dome Temp. 68°F

Focus 15-49

Dome Temp.

23h 30m Moonlight reveals light cloud moving in

00m seeing poor! transparency terrible!

02m heavy dew!

Transparency Conditions Good.

170 visitors: showed M13 to each group

Hour Angle Eml	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS				Quality
0 14 E	+13° 53'	0	6.07	B9	6-6-6	[illegible] program	5.5	Sen 7	1023 1040	[illegible]
0 17 W	+17 55	0	6.39	B9	6-6-6	B8-B9 program (field check)	Lit 5	Sen 7	1045 1057	[illegible]
0 10 W	+35 06	0⁻	6.24	B8	6-6-6	B8-B9 program	Lit 5	Sen 6	1059 1063	[illegible]
0 36 W	+27 59	0⁻	6.31	B8	6-6-6	" "	Lit 5	Sen 6	1065 1069	[illegible]
1 25 E	+10 46	0⁻	6.31	B8	6-6-6	" "	Lit 5	Sen 7	1072 1074	[illegible]
0 14 E	+42 31	0⁻	6.04	B5	6-6-6	" "	Lit 5	Sen 7	1083 1099	[illegible]
0 24 E	+78 01	0⁻	6.48	B9	6-6-6	" "	Lit 5	Sen 7	1104 1116	[illegible]
0 43 E	+44 14	0⁻	6.30	B8	6-6-6	" " (field check)	Lit 5	Sen 7	1118 1120	[illegible]
0 42 E	+59 46	0⁻	6.37	B8	6-6-6	" "	Lit 5	Sen 7	1132 1145	[illegible]
					20/16					[illegible]

3 PH Graded

57

Date [illegible] **Observer** [illegible] **Julian Day** .....

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I
26308	HD 201038	21 [illegible]	33 16	[illegible]	IIaO B	-012	+16.0	[illegible]	[illegible]	2
1904-215	α Lyr.	18 35.6	+3845		4/4/17	28	or	00	08	[illegible]
1905-215	16 Cyg B	19 40.9	+5025		6/5/33	28		00	36	[illegible]
1906-215	16 Cyg B	19 40.9	+5025		6/5/33	28		00	46	[illegible]
1907-215	16 Cyg A	19 40.9	+5025		6/5/33	28		00	57	[illegible]
1908-215	16 Cyg A	19 40.9	+5025		6/5/33	28		00	07	[illegible]
1909-215	M 30	21 37.7	-23 24		8/5/40	20	(3)	01	20	2+1 5
1910-215	R 536	22 15.3	+17 41		6/6/33	28		02	09	[illegible]
1911-215	R 536	22 15.3	+17 41		6/6/33	28		02	16	[illegible]
1912-215	61 Cyg A	21 05.0	+38 30		6/5/33	22		02	35	[illegible]
1913-215	61 Cyg A	21 05.0	+38 30		6/6/33	20		02	45	[illegible]
1914-215	61 Cyg B	21 05.0	+38 30		6/6/33	28		02	55	[illegible]
1915-215	61 Cyg B	21 05.0	+38 30		6/6/33	28		03	05	[illegible]
1916-215	51 Peg	22 55.6	+20 30		6/5/33	28		03	16	[illegible]
1917-215	51 Peg	22 55.6	+20 30		6/5/33	28		03	26	[illegible]

Dome Temp. 56·F
Focus 15.37
Dome Temp.

CO_2 in 2300
700 V

Transparency Conditions Very Fine, polar air
☽ 21d old

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
E 1 51	33 30	1	2.0	A3	4-4-4	sub 5 F Ecl. Bin, [illegible] 8 1143	fair
01 25 W		5"	0.0	A0V		α Lyr standard	
0 48 W			6-20	G5V		Δ Prog — MK	
0 58 W			6.20	G5V		Δ Prog MK	
1 09 W			5.9	G2V		Δ Prog MK	
1 19 W			5.9	G2V		Δ Prog MK	
5 10 m			8.0	V		⊕ recentered (left ladder)	
0 15 E			7.03	G2V		Δ Prog HV	
0 05 E			7.03	G2V		Δ Prog HV	
1 15 W			5.6	K V		Δ Prog MK	
1 35 W			5.6	K V		Δ prog MK	
1 45 W			6.3	K V		Δ Prog MK	
1 55 W			6.3	K V		Δ Prog MK	
00 5 W			6.2	G4V		Δ Prog MK	
01 5 W			6.2	G4V		Δ Prog — MK (some twilight [illegible] probably 5x)	

Date Tu/we July 24/25 1962 **Observer** FvB — Gy **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H
26309	HD146334	16 00.2	-23 20		IIaOB	010	21.5	20 23	20 43	3
1918-216	M80	16144	-2253		8/5/40	28		2108	[illegible]	
1919-216	M19	17001	-2612		8/5/40	28		2143	2x1 [illegible]	
1920-216	M4	1833.6	+3845		8/4/14	28		2257	?x	
1921-216	M56	1914.9	+3005		8/5/40	28		2310	[illegible]	
1922-216	M71	1951.7	+1840		8/6/40	28		2352	2x1 No [illegible]	

Lost on star HD219617, then found slit at 040 + Prism Assy. lifted off plate (3h E), Fixed on ALSO one of elastic straps for secondary

Echo I in Aql at 23:23 EST

Dome Temp. ..... CO_2 in 20.00

Focus 15.45 700V

Dome Temp. .....

Transparency Conditions ..... Fine except Sev. cloud bank low in West
2145 OK except Sev. cloud bank in West
low clouds moving in 23 55

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 31 W	-2 31	0	5.8	B8	4-4-4	B 8-9 Still daylight! Pt loaded see lion or lit	fair
0 53 W	+108		8.4	II		⊕ Some twilight danger! Strange Emissions	Tel Bad
0 45 W	+0 45 W		8.3	VIII		⊕	
0 15 W			0.04	AOV		Extra-Tidal Standard	
0 05	+0 20		9 6	X		⊕	
0 00			8 3	—		⊕ cloud danger! clouded out	

Thur — Thin Clouds all over Sky. 1h. Put cap on other finder + CLOSED-UP cover came off last time I was on, maybe they can be made less tight in future also — Gg.

— Wind at 40 km/hr. — Gg

Thur Jul 26 — Cloud banks over sky - 21h

Date Fr/Sat 27/28 Jul 1962 **Observer** [illegible] **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I
1923-217	α CrB	15 33.0	+26 51		5/4/14	20		20:40	2x	
1924-217	R416	17 19.2	+01 28		7/4/33	20		21:00	2x	
1925-217	R416	17 19.2	+01 28		7/4/33	28		21:10	2x	
1926-217	M14	17 35.5	-03 15		8/5/40	28		21:25	2x+5m	
1927-217	NGC6229	16 45.9	+47 06		8/5/40	28		21:58	2x+5m	
1928-217	M28	18 22.1	-24 54		8/4/40	28		22:36	3x+5m	
1929-217	α Lyr	18 35.6	+38 45		4/4/14	28		23:18	2x	
1930-217	M56	19 14.9	+30 05		8/5/40	28		23:44	2x+5m	
1931-217	M71	19 51.7	+18 40		8/5/40	28		00:15	2x+5m	
1932-217	NGC6934	20 31.9	+07 15		8/5/40	28		00:50	2x+5m	
1933-217	M30	21 37.7	-23 24		8/4/40	28		01:23	2x+5m	
1934-217	NGC7006	20 59.3	+16 01		8/6/40	28		01:57	2x+5m	

Dome Temp. .....

Focus .....

Dome Temp. .....

CO_2 in 19:30
700V

Transparency Conditions ..... very fine power
a few stratocumulus lower W.
re 778 [illegible] (at [illegible] RC 17 280K)
2400 very fine
A VERY FINE NIGHT

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1h 15m W			2.2	A0V		Ext. ST	Sow tonight [illegible] to [illegible]
0 11 E			6.9	G0V		ΔHV	
0 02 E			6.9	G0V		ΔHV	
0 05 + 0 05 E			9.4	VIII	⊕		
1:23 W + 1:23			10.3	IV	⊕	[illegible]	
0:20 and 0:40 W SK 0:20 W			8.5	II	⊕	return run repeated Dr. Stid [illegible]	
0:53 W			0.04	A0V		Ext. Star	
0:41 W + 0:41 W			9.6	X	⊕		
0 37 W + 0 50 W			8.3	—	⊕		
0:30 W + 0:45 W			10.0	VIII	⊕		
0:00 + 0 00			8.6	V	⊕	[illegible]	
01:10 W			11.5	I	⊕	[illegible]	

@ 2:31 EST δ - Slow motion broke down

Sat 28 July '62
~130 Visitors, I. St. Pa
Demonstration
"Heavens"

63 | 8-40 I opt [illegible] 22 35 GDST

Date Tu/We July 31/Aug 1 1962 **Observer** vdB **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H
1935-218	ζ CrB	15 33.0	+26 51	5/4/14		20		20 43	24	
1936-218	ε CrB	15 55.3	+27 00	6/4/38		28		21 05	24	
1937-218	ε CrB	15 59.9	+27 00	6/4/33		28		21 13	27	
1938-218	M14	17 35.5	-03 15	8/5/40		28		21 31	24+5m	
1939-218	M28	18 22.1	-24 54	8/4/40		28		22 02	24+5m	
1940-218	NGC 6229	16 45.9	+47 36	8/5/40		28		22 40	24+5m	
1941-218	M56	19 14.9	+30 05	8/5/40		28		23 10	24+5m	
1942-218	M71	19 51.7	+18 40	8/6/40		28		23 44	24+5m	
1943-218	NGC 6934	20 31.9	+07 15	8/5/40		28		00 22	24+5m	
1944-218	M30	21 37.2	-23 24	8/4/40		28		01 08	24+25m	
1945-218	NGC 7006	21 59.3	+16 01	8/6/40		28		01 50	24+5m	
1946-218	R 53 6	22 15.3	+12 41	7/4/33		28		02 25	24	

Dome Temp. .....

Focus .....

Dome Temp. .....

CO_2 in 19 15
V = 700

N_2 strong ?? Aurora in N.

Transparency Conditions Clew Polo with a few [illegible]

22 00 very fine
22 30 clouds to [illegible] S. also low [illegible] North [illegible]
24.00 isolated C. [illegible], Aurora [illegible]
00 15 sky OK
01 30 clouds in N (17 30 OK)
02:35 A [illegible] in
[illegible]

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1:37 W		5"	2.21	A0V		Standard	
1 32 W			4.15	K3 III		MK Δ	
1 40 W			4.15	K3 III		MK Δ	
0.35 W	+0 24 W		9 4	VIII		⊕	
0 10 W	+0 10 W		8.5	IV		⊕	
0 2 18 W	+ 2 18 W		10.3	IV		⊕ slight cloud danger	
00 23 W	+ 00 23 W		9.6	V		⊕ " " "	
00 21 W	+ 00 35 W		8 3	—		⊕ cloudy!	
00 18 W	+ 00 18 W		10 0	VIII		⊕ Sky OK Aurora in N	
00 00	00 00		8 6	V		⊕ [illegible] sky OK?	
0 12 E	0 12 W		11 5	I		⊕ Some cloud danger [illegible]	
00 35 W			7.03	G0V		HV Δ	

65 | Echo I Ophiuchus 20:45 EST
Oph-Sco 22 45 EST |

Date Wed 11th Aug 1/2 1962 **Observer** vdB - Sft. **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I
1947-219	α CrB	15 33.0	+26°51'	5/4/14	20			20 40	2x	
1948-219	R416	17 19.2	+01 28	7/4/33	28			21:05	2x	
1949-219	R416	17 19.2	+01 28	7/4/33	28			21:15	2x	
1950-219	M14	17 35.5	-03 15	8/5/40	28			21.29	2x+5m	
1951-219	NGC 6229	16 45.9	+47 36	8/5/40	28			22:03	2x+5m	
1952-219	NGC 6712	18 50.6	-08 47	8/5/40	28			22:38	2x+5m	
1953-219	M71	19 51.7	+18 40	8/5/40	28			23:18	2x+5m	
1954-219	M72	20 51.0	-12 43	8/6/40	28			23.40	2x+5m	
26310	HD 204038	21 20.8	+33 16	I-25	II a Ob	.008	20.0	00 40	01 50	4
26311	HD 217224	22 54.2 (1961)	+67 52 (1961)	"	"	"	18.9	02 04	02 40	1
	~~HD 219617~~	~~23 15.2~~	~~-14 07~~	"	"	"	~~19.3~~	~~2.59~~	~~3 13~~	~~2~~
	~~BD 47°781~~	~~03 03.3~~	~~+47 33~~							
None	Focus	Test					19.3			1

Dome Temp. 6[illegible]

Focus 15.58 / .15 / 15.43

Dome Temp.

CO_2 in 19:40 EST
V = 700

Transparency Conditions: Cirrus in N and W, vert [illegible] Fair [illegible] OK, not AOK, 22:00 Cirrus to 25° in S. 23:40 Looks S. now 23:40 Fine

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
01 38W		10"	2.21	A0V	Ext. ST		
00 14W			6.9	S0V	HV Δ		
00 24W			6.3	S0V	HV Δ		
00 25+00 25W			9.6	VIII	⊕		
01 48W	+01 48W		10.3	IV	⊕	Recentered	
00 19W	-00 19W		10.0	IX	⊕		
00 03E	+00 03E		8.3	—	⊕	Includes one of Dragon Stars	
00 30E	-00 30E		10.2	IX	⊕		
00 51W	+72 30	1	8.0	A3	6-6-6	Set 5 F Cel. Bin. Sem 8. 197 230 232	
00 16W	+68 11	1	7.8	B8	6-6-6	Set 5 F Cel. Bin. Sem 8 262 265	
	-14 03	0	8.6	sdF8	6-	Set 5 Se HV. Sem 8 69	
						Caught in inclining field	
						Set 9.	
						2 PHH's Involved	
8 Dual nights not working well!							
3rd Night now.		2 of 3					

Echo: the Pole in west : Meridian at 9:58 EST
- moved from west to SW to S [illegible] at Meridian

Date Thur/Fri 2/3 Aug 62 **Observer** I - Pu **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	F
26312	HD 165401	18^h 00.7	+04 39	I25	IIaOB	.008	+24°C	$21^h 14^m$	$21^h 52$	3
26313	HD 190020	19 57.9	+73 21	I25	IIaOB	.016	+22.8°C	$22^h 35^m$	$00^h 03$	4
			20 minute look at Saturn - reasonably clear							
26314	HD 219617	(1961) 23 15.2	(1961) -14 07	I-5	IIaOB	.008	+20.8°C	$00^h 54^m$	[illegible]	1
26314 F	focus test									
26315	HD 202860	21 13.6	+42 16	I-25	IIaOB	.008	+20.[illegible]	[illegible]	$01^h 31^m$	[illegible]
26315 F	focus test									
						2 PH loaded				

Exposure meter has a tendency to become unbalanced
- had to adjust it a 0.3 [illegible] during the night - Pu

Dome Temp. 70°F

Focus 15.49 – 15.44

Dome Temp. 60°F

Opened up at 8:50 EST

Transparency Conditions Magnificent Sunset + 1/8 MOON in west OK to start; few clouds near horizon in west

9:30 EST: PERFECT

– Can even see Milky Way Clearly

1:16 light cloud rolling in

1:30 " " disappeared

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS			Quality
0h 18m E	+04 39	+1→0	7.42	G2V	6-6-6	Se HV (Pg8) ‖ a little (6 counts) overexposed	set 5	Lens 8 1293 1340	fine
0h 35m E	+73 32	0	8.5	F5	6-6-6	F Eclipsing Binary	set 5	Lens 9 1348 1443	fine
0h 42m W	−14 04	1→0	8.6	sd F8	6-6-6	Se HV (Gy) 1:39 exposure with rebalance.	set 5	Lens 9 1462 1521	good
						set 9			
3h 48m W	+42 30	1	6.04	B2	6-6-6	B2 – B9 pgm.	set 5	Lens 6 1556 1560	Cab
						set 9			affected

* 8.24 [illegible]

[illegible]

Just found to be off in spectrograph at 02:00 – Next time [illegible] at 20:22 but spectrograph not repaired till 3:50

Note for 2634 1st 1/2 hour [illegible] very slow – then exposure meter found to be [illegible] unbalanced – Resulting much better after rebalance – Pa

1) One of bolts of Iron Arc Knife Switch is missing – Switch [illegible]

2) No Light in 25" Camera Chamber

3) Observers should take care not to walk into [illegible] operating [illegible] in the dark

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Date Fri-Sat Aug 3-4/1962 **Observer** Lt **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
26316	169578	18 20.2	+05 02	I-25	IIaOB	.008	24.6	22 17	23 01	

Aug 4/5
Sat-Sun 140 visitors
showed 'Universe' Cl, Co, J.B

Very poor - scattered clouds at 70 [illegible] increased. VERY POOR

Dome Temp. 76 °F

Transparency Conditions

Focus 15.65 for 24.6 °C. 22:00 Seems better opened up.
15
15.50

Dome Temp.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1 10W	+ 5 02	0--	6.54	Bg	6-	Set 5. B8-Bg Seq 6. 571 572 1/3. 22 50: clouds. clouds fast moving from North CLOSED UP.	l

71 Echo! crossed meridian at 21:34 alt ~25°

Date Sun.-Mon. Aug 5-6 /1912 **Observer** Cn - HS **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
26317	HD 169578	18 20.2	+05 02	I-25	IIaO B	.002	25°.0	20:34	21:10	4
26318	HD 175744	18 51.7	+17 52	I-25	IIaO B	.002	25°.0	21:21	21:49	1
26319	HD 192659	20 10.9	+41 43	I-25	IIaO B	.002	25°.0	23:30	23:55	2
26320	HD 194582	20 54.9	+41 33	I-25	IIaO B	.002	24°.9	00:05	00:13	3
26321	HD 202444	21 05.9	-11 01	I-25	IIaO B	.002	24°.9	00:22	01:12	4
[illegible]	HD 217224	22 [illegible]	60 [illegible]	[illegible]	[illegible]	[illegible]	[illegible]	01:20	03:[illegible]	1

Dome Temp. 76°

Focus 15.71

Dome Temp.

Transparency Conditions poor! very thick haze up to 30° [illegible] 21h extinction 1 mag.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 30 W	+05 02	0	6.34	B8	6-6-6	lt 5 B8-B9 Program hr 7 1590 1592	fair
0 26 W	+17 56	0	6.39	B9	6-6-6	lt 5 " " " hr 7 1594 1606	fair
0 37 W	+41 58	0	6.37	B8	6-6-6	lt 5 B8-B9 Program hr 7 1611 1627	fair
0 04 W	+41 46	3	6.01	B9	6-6-6	lt 5 B8-B9 Program hr 7 1632 1644	fair
00 40 W	-10 47	2	6.26	B8	6-6-6	lt 5 B8-B9 Program # 7 1653 1665	fair
01 26 W	68 10	2	7.3	G8	6-6	" 5 [illegible] # 8 1686 1702	fair
					20/15	[illegible]	[illegible]

2 PM [illegible]

22h est or 19000 couldn't identify field
est or 2 B8-B9 stars " " " "

Date Tue/Wed Aug 2/8 **Observer** F - Pu **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
26323	HD 188263	[illegible]	+11 29	I.25	IIaO6	002	28°.0	20 : 18	21 : 20	2
26324	HD 204038	21 20.8	[illegible] 16	"	"	016	27°.9	21 : 00	[illegible]	3
[illegible]	HD [illegible]	19 26.1	-02 19	"	"	008	27°.9	[illegible] : 44	[illegible] : 25	4
[illegible]	HD 190020	1952.0	+73 21	"	"	016	27°.7	[illegible] : 35	01 : 09	1
[illegible]	HD 217312	22 54.2	+62 32	"	"	008	27°.3	01 : 20	02 : 00	2
26328	HD 217304	22 54.2	+67 52	"	"	012	27°.3	02 : 10	03 : [illegible]	3
26329	HD 224404	23 525	+57 38	"	"	008	27°.2	04 : 00	04 : 14	4
26329 F	focus test									

Dome Temp. 80

Focus 15.55 (28°C)

Dome Temp.

Transparency Conditions good - high cirrus in places

21h Superb!

1150 quite clear all over the sky - milky way visible

2:40 clear

4:10 clear

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS					Quality
00 41 W	+11 24	0-1	8.0	A3	5-6-6	Set 2	F+ 8x8	field drum	highest two zone 7		blank
02 02 E	+33 30	2+	8.0	A3	5-3-3	Set 3	F 8 6 in	field drum	zone 8 (2)	1155	fine
00 [illegible] W	-02 13	1+	6.7	B8	6-6-6	Set 3	V822 dgl HD 8 8 in (F)	field drum	zone 7 (2)	1990	fine
02 00 W	+73 10	2-3	8.5	F5	3-3-3	Set 3	F 8 8 6 in	chaos field drum	zone 8 (20)	2000 2110	fine
00 10 E	+62 49	0-1	7.8	B0 III	6-6-6	Set 2	HD " "	"	zone 8 (20)	2110 2141	fine
01 21 W	+68 09	2	7.9	B2	5-4-5	set 5	F 8 6 in	field drum	zone 8 (20)	2151 2182	fine
01 08 W	+57 46	2	6.37	B8	6-6-6	set 3	B6 - B9 pleg		zone 8 (4)	2187	fine
					20/16	set 4					v. [illegible]

3 P.H. loaded

Star gets lost in slit

Guiding difficult on R.A. - drifts v. fast

[illegible] - poor d[illegible]

21h 4 [illegible]

Date Thu / Fr 9/10 Aug **Observer** F - Cn **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.
26330	HD 158263	17 23.3	+4 29	F-25	IIaO	008		~~21 03~~		
26330	HD 170973	18 27.1	+02 25	F-25	IIaO	008	22°.50	21 03	21 [illegible]	1
26331	HD 206038	21 20.8	+22 10	"	"	016	23°.0	21 31	21 [illegible]	2
26332	HD 182618	19 20.4	+27 55	"	"	008	22°.60	23 28	00 24	3
26333	HD 209308	21 57.4	+10 29	F-25	IIaO	008	22°.60	00 [illegible]	01 03	4
26334	BD 21°5143	22 35.0	-07 29	F-25	IIaO	008	22°.60	01 14	01 [illegible]	1
26334	Focus Test	[illegible]	[illegible]							

Dome Temp. 68° F

Focus 15 47

Dome Temp. 63° F

00° 30 – cloud improved – occasional cloud
01 00 – clouds moving in from NE

22.8 C

Transparency Conditions ~~Fair to Fly~~ . much light aircraft cloud

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
				A3		Set 3 Too much [illegible]	
[illegible] 14 E	+33 36	0	6.3	B9	6-6-6	Set 3 [illegible] Field trees	[illegible]
01 07 E	+33 30	0-2	[illegible]	A3	3-3-3	Set 4 [illegible] Field Comet	[illegible]
01 57 W	+12 00	0	6.3	B9	6-6-6	Set 3 [illegible] Rigid tram	[illegible]
0 03 E	-10 46	0	6.3	B9	6-6-6	Set 5 B3-B9 "	[illegible]
0 15 E	-07 12	0	6.25	B9	6-6-6	Set 5 B3-B9	[illegible]
					20/16	Set 9	

3 PH's Loaded

01.30 clouds cleared [illegible] – clouded up

[illegible]

22h Telescope [illegible] E [illegible]

77 Sat/Sun F

Date Aug 11/12 1962 **Observer** Gp - F **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H
26335	HD 192659	20 10.9	+41 48	25"	IIaOb	008	23.5	23:04	23:18	2
26336	HD 219617	23 15.2 (1961)	-14 04	"	"	"		23:31	03:01	3
26337	HD 204038	21 20.8	+33 16	"	"	016	23.5	03:11	4 35	4
	Focus Test					016				

Dome Temp. 20C 67°F at 0h

Focus 15.63 − .15 = 15.48

Dome Temp. 63°F at 04:30

Transparency Conditions Fair – 23h (not so good earlier)

0h30 – Stratus – esp in W.

1:40 – 1st Lg way clear

2:0 Clouds going but also SW – Sky hazy

2:05 Sky cloudy with [illegible]

2:25 Cloud [illegible]

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0:50W	+41 59	0-1	6.4	B8	6-6-6	B8 - B9 Prog	fine
0:50W	-14 03	0-1	8.6	sd F8	6-6-6	Se - HV (Gg) 3h E! 1 count in 85B, 60° (Seeing is 3 per [illegible])	
04:50W	+33 30	0-1	8.0	A3	3-3-3	Sat F&G Sim F, M [illegible]	
					0/2	Sat 9	
	3 PHs	Ended,					
	[illegible]						

2:40W
2:16
2:18
2:54
2:00
2:00
2:01

Sat Visitors Gg & F – Ml

190 – Showed Messier 92

79

Tue/Wed

Date Aug 14/15 1962 **Observer** Gg - Pu **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
26338	HD158263	17 23.3	+11 29	25"	IIaO6	.008	21C	20 37	21 09	1
26339	HD172187	18 33.7	+43 08	25"	"	"		21 19	21 27	2
26340	HD175190	18 49.1	-22 48	"	"	"		21 48	22 06	3
26341	HD183794	19 26.1	- 2 19	"	"	"		22 22	22 38	4
26342	HD204038	21 20.8	+33 16	"	"	.016		23 11	23 59	1
~~26339b~~	~~HD172187~~	~~18 33.7~~	~~+43 08~~	~~"~~	~~"~~	~~.008~~				
26343	HD219617	(1961) 23 15.2 (1900)	(1961) -14 04 (1900)	"	"	.008		00 16	02:50	3
26344	HD 209288	21 57.1	+10 29	"	"	"	20.7°C	03 15	03:30	4
26345	HD 224404	23 52.5	+59 28	"	"	"	20.8°C	03:53	04:01	1
26345 F	focus test									

2 PH: loaded

Dome Temp. 19.5 Celsius

Focus 15.59 − .15 = 15.44

Dome Temp.

Transparency Conditions Good Clear down to horizon. Nearly FM clear down to horizon

00:~~12~~:55

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS			Quality
100W compute	+11 24	0+	[illegible]	A_3	6-12	KA ~~6×6~~ 8×8 in what looks	Atmosphere unsteady	Seq 2637 63	fine
0^h07W	+43 11	0-1 / +1	6.4	A_5	6-6-6	Set 2 [in 8^m] N-SB	field checks	Seq 7 68 80 12	fine
0^h28W	−22 45	0-1	6.4	sgK5	9-9	rdB-SB	Had trouble with Dec slow-mot.	field checks. Seq 7 2692 2710 16	fine
0^h44W	−2 14	0	6.68	B_8	6-6-6	Hd-EB	Set 2	V822 Aql Seq 7 2213 2225 12	fine
0^h09E	+33 30	0-1	8.0	A_2	6-6-6	F-EB	Set 5	Field ✓ Seq 8 2732 30	fine
~~[illegible]~~	~~[illegible]~~	~~[illegible]~~	~~6.4~~	~~A_5~~	~~[illegible]~~	~~Set 5 N-SB~~		~~[illegible]~~	
$[illegible]^h$59'W	−14 04	0-1	8.6	sdF5	6-6-6	Sc HV (Gg)	Field ✓	Seq 9 2769 2872	good
00^h[illegible]'W	+10 46	1	6.31	B_8	6-6-6	B_8-B_9 [illegible]	set 5	seq 6 2814 2822	fine
01^h23'W	+59 47	1-2	6.37	B_8	6-12 20/16	B_8-B_9 [illegible]	set 2 set 9	seq 6 2842 2897	fine

I forgot to pull the plunger for the 1st 20 sec. of exposure on the focus [illegible]

1) Declination slow motion jumps rather badly – probably the cable is at the end of the track – Pa

2) There is [illegible] more hour illumination in the viewer [illegible]

Date Aug 15-16/62 Wed-Thurs **Observer** Cw - Ist **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I
26346	HD 169578	18 20.2	+05 02	I-25	IIaob	.008	23.9°	20:17	20:33	2
26347	HD 183794	19 26.1	-02 19	I-25	IIaob	.008	23.0°	20:44	21:04	3
26348	HD 190030	19 57.9	73 21	I-25	IIaob	.016	22.9°	22:59	00:43	4
	~~HD 217224~~	~~22 54.2~~	~~67 58~~							
26348a	Sky	Exposure.	Aug 16/62					3h	Cg	

Dome Temp. 69°

Focus 15.49

Dome Temp. 61

Transparency Conditions 20 30 low cloud bank in west moon in E east - bright full otherwise good

00 30 light clouds moving in from W

(82)

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 32E	05 02	0	6.54	B9	6-6-6	Lt 5 B2-B9 Pecular bin (2) 2907 2919	good
1 06E	-02 14	1	6.8	B8	6-6-6	Lt 5 Ed Ed Bin field clusts. bin (12) 2923 2935	fine
2 07E	+73 33	0	8.5	F5	3-3-	Lt 5 F Ed Dim strange nebs bin (100) 2936 3032 9	good

PH loaded.

2

fine to strong

00 telescope drifts badly in RA

21:30 dom motor control has caught on ladder? - called

1100 Blew 2 flurries with slow motions

Also clamshell up & lower closed up.

83

Date Fri-Sat Aug 17-18 **Observer** Olt-Hr **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	
	~~HD 110897~~						20.0			1
26349	HD 161817	17 42.6	+25 48	I-25	IIaJ	.008		21 20.	21 56.	2
26350.	HD 183794	19 26.1	-2 19	"	"	"	19.5	22 07	22 39	3
26351	HD 190020	19 57.9	+73 21	"	"	.016 "	18.8.	22 52.	00 00	4

Dome Temp. 64°

Focus 15.58 − 0.15 = 15.43.

Dome Temp.

Transparency Conditions 2140 Some [illegible] clouds at horizon Otherwise clear. Bright moon. 2310 Clouds in West & Broken Clouds in NW

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
						~~Set 5~~	
1 38 W	+ 25 45	1	6.9 P	SAE	6-6-6	Set 5 26-36 Sig HV. Sem 7 Neptune units 3096 3111 3118. 3125 3127	fine
0 37 W	− 2 14	0-1	6.68	B8.	6-6-6	Set 5 Hd Ecl Bin. Sem 7 10"	fine
1 31 W	+ 73 34	0-1	8.5	F5	3-3-3	Set ½ F Ecl. Bin Sem 9	fine

0005 CLOUDS.

3 P.H in focus.

21 hrs. opened up, set cam star & started focusing flares with elec hand switch. Cabled Frank. Slow elec. switch stuck. Shut up 4 hrs, 5 min.

'85

Date Sat / Sun Aug 18/19 Observer ME F - F Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
26352	HD 192579	20 10.5	+46 25	7-4	IIaO	008		00 13	00 29	1
26353	HD 206038	21 20.8	+33 16	"	"	016	17.9	00 36	01 22	2
26354	HD 217834	22 54.2	+67 52	"	"	012	18.2	01 37	02 20	3
	Focus Test						18.6			
26374 E2	Focus Test	Setting	510 .35	3½ .18	5 30	10 4	21.2	1.008		4
13			44	42	40	30	22	1.008		1
			Set 10	3½	5	0				

F-ME-N 150 Vuilton

Stood M92 to first group

Guided on for second group - Closed Up - high clouds

23:00 looking clearer in general - scattered 1st cloud in N W & E

23:30 clouding over again

0:00 opened up

0:30 Cl[illegible]

2:10 The cloud coming in fast from NW - gap at 23h + 52° !

2:20 Closed up [illegible]

Dome Temp. 63° 0h

Focus 15.41 18.6°C 15.56 15.41

Dome Temp. 60 22½h

Transparency Conditions Excellent when no clouds

Clouds from 21h to 0h – dispersion 1-2 mag

Clouded right out 2:30

86

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1 40W	+46 35	0+	6.92	B9	6-6-6	set 3 zeros 8 Field drawn correct B8-9 ⑨ 3243	
1 30W	+33 30	2-1	8 0	A3	3-3-3	set 5 zeros 8 F Ecl Bin Field Checks ⑪ 3277 3307	
0 50W	+68 10	1	7.8	B8	5-4-5	set 3 zeros 8 F Ecl Bin " " ⑩ 3309 1127	
					14/10	Set 8	
						Clouded out at 2:20	
Given NEW focus Corr'n)						Subtract 0.11"	
						8 PH's Graded	
Aug 20	11h	21.8°C					
					→	Gerry – Finder eyepiece cross hairs need adjustment	
						Vantas " " "	
						The finding & Vision eyepiece are NOT focus in same pos'n.	BADLY
						Cross Hair ring – 1 turn for correct focus in finding eyepiece	

87

Date Aug 20/21 '62 **Observer** Ca **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
2655	DD 19020	19 37.9	73 21	[illegible]	[illegible]	.016	25.0	21:55	[illegible]	2

Dome Temp. 76°

Focus 15.51

Dome Temp.

Transparency Conditions

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality

20^h low black cloud bank in N & W

20^h 30^m low black clouds apparently stationary - opened up

20^h 45^m delayed with phone calls - object of probable mag 1 went across sky from SW to NE in about 2 minutes - left no trail - observers seemed reliable

amid phone calls tried to open up

① clocks about 2 minutes slow

② "Instruction & Observers" was not in box

21^h finally set on star - visitor appeared badly out of focus

21^h : 10^m "stationary" clouds obscure star - looked like rain - closed up, loaded 2 plate holders & went home

MORAL: If there's a cloud in the sky, stay home!

89

15.49 at 22h 10m

Date Aug 21/22 Tuesday **Observer** (TE) – Pu **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I
26355	HD 193794	19 25.1	+02 19	I-25	IIaO	008	23.6	20:15	20:15	1
26356	HD 204038	21 30.8	+22 16	"	"	016	22.0 22.8 22.0	21:10	22:16	2
26357	HD 190030	19 52.9	+05 21	"	"	"	21.8	22:18	00:08	3
26358	HD 172216	18 24.3	+47 33	"	"	008	19.5 19.7 19.7	00:30	01:08	4
	F-Test Test									
26359	BD [illegible]	02 [illegible]	+52 [illegible]	"	"	008	19.5 19.5 19.5	01:30	03:12	1
26359 F	F-Test Test									
26360	HD [illegible]	21 30.8	+38 11	"	"	016	19.5 19.5	03:44	04:58	2
26360 F	focus Test									

Dome Temp. 72°

Focus 15.52 25°7C NEW Sens in

Dome Temp. 60° F

Transparency Conditions Very Poor - [illegible] Bad in North

22h good except near horizon

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
00:54 E	-02 14	0+	6.7	B8	6-6-6	Set 2 HDEB Field Comet Sens 7	fair
01:24 E	+33 30	0-1'	8.0	A3	3-3-3	Set 6 FEB " " Sens 9	fair
1 52 W	+73 30	0-2	8.5	F5	5-3-3	Set 2 FEB " " Sens 9	fair
00:45 E	+02 07	1-2	1.8	B8	1-5-6	FEB " " Sens 9	fair
					30/10	Set 7	
02 11 E	+47 56	1-2	2.0	?	6-6-6	Set 3 FEB Field Comet Sens 9	fair
					30/10	set 9	
05 32 W	+33 31	1-2	2.0	A3	3-6	set 5 FEB Field elliptical sens 9	poor
					10/1	set 9	

Weather not working

[2 P.H. ½ limited]

GERRY

1. Finder Cross-hairs very out of focus
2. Focus & Vernier eyepiece slipping
3. Spectrograph [illegible] not working properly (22h 10m)
4. Clocks out [illegible]
5. [illegible] adjusting
6. [illegible]

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Date Aug 22/23 1962 [illegible] **Observer** [illegible] **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.F
1955-220	α Lyr	18 35.6	+38 45		4/4/14	14		19.59	2x	
1956-220	R 441	18 14.7	-03 02		7/3/33	28		20.22	2x	
1957-220	R 441	18 14.7	-03 02		7/3/33	28		20.30	2x	
1958-220	NGC 6638	18 28.2	-25 32		8/4/40	28		20.51	2x + 5m	
1959-220	NGC 6712	18 50.6	-08 47		8/5/40	28		21:20	2x + 1m	
1960-220	M 56	19 14.9	+30 05		8/5/40	28		21:51	2x + 5m	1x
1961-220	M 71	19 51.7	+18 40		8/5/40	28		22:28	2x + 17m	
1962-220	M 72	20 51.0	-12 43		8/5/40	28		23:03	2x + 50	
~~1963-220~~	~~NGC 7006~~	~~20 55.3~~	~~+16 01~~							
26261	HD 217312	22 54.8	+62 32	I-25	IIaO	.008	21.0	00 11	00 51	3
26262	HD 217224	22 54.2	+67 52	"	"	"	20.0	00 50	02 00	4
26263	HD 204038	21 20.8	+32 16	"	"	.016	19.2	12 24	04 16	1
	f[illegible]									

Dome Temp. .....
Focus 15.48
Dome Temp. .....

CO_2 in 19:15
V = 750

Transparency Conditions ..... Ci: in West up to 20° } 20:00
Streaks in S. up to 5°
rest of S.
~~Scattering [illegible] CH_4 [illegible]~~

PATH Strong Aurora :- N 20:00 – 21:30

3:00 clouds around horizon esp in West.
3:45 light clouds all over sky.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0:44E		9"	0.04	A0 V		Ext. ST	
0:02 E		5"	6.00	G8 III		ΔHV	
0:06W		5"	6.00	G8 III		ΔHV	
0:15W	+0:15W		10.2	VI		⊕ aurora weaker but still trace	
0:21W	+0:21W		10.0	IX		⊕ aurora [illegible] (CNE [illegible])	
0:30W	+0:45W		9.6	X		⊕	
0:30W	+0:45W		8.3	–		⊕ No [illegible]	
0:07			10.2	IX		⊕	Pen in Brown not working!
			~~11.5~~	~~I~~		⊕	
0:20E	+62 50	0	7.8	B6 IV	6-6-6	Set 5. Hα. Bun.	Sun 8: 3x78 1930
5:14W	+62 09	0	7.8	B8	6-6-6	Set 5 F Eol. Bin.	Sun 8: 3131 3061
4:17W	+33 29	0	8.0	A3	3-3-20/16	Set 5 " Telescope [illegible]	Sun 7: 3165 4000
						Set 9 3PHK Cooled	

Please Fix this

Saturday
4:17 dec. stopped working. Checked fuses inside [illegible] tripped, the switch behind the old RA clock. This may be the cause of dec. problems. MB. Telescope is still stuck at dec. 53°

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Date Aug. 23-24/62 Observer [illegible] Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H
26364	HD 177410	18 59.5	69 23	I-25	IIaO B	.008	23.0	21 45	22 06	2
26365	HD 192579	20 05	06 28	"	"	"	23.0	22 15	22 45	7
26366	HD 192659	20 08	40 48	"	"	"	22.0	22 45	23 05	4
26367	HD 193322	20 16.7	[illegible] 30	"	"	"	22.0	23 15	23 25	1
26368	HD 194649	20 29	53 19	"	"	"	21.0	23 32	23 [illegible]	2
26369	HD 212943	22 22.8	+04 12	"	"	"	21.4	23 52	[illegible]	3
26369	HD 212943	"	"	"	"	"		23 59	00 09	3
26369	HD 212943	"	"	"	"	"	21.2	00 10	00 24	3
26370	HD 217312	22 54.8	+62 32	I-25	IIaO B	.008	20.9	00 39	01 13	4
26371	HD 217224	22 54.2	+17 52	I-25	IIaO B	.008	20.4	01 38	[illegible]	4
26371	HD 217224	22 54.2	+17 52	I-25	IIaO B	.012	20.4	01 39	02 33	1
26372	BD +49 781	03 03.3	+47 33	I-25	IIaO B	.012	19.6	02 46	04 20	2
26373	HD 18777	02 35.8	+54 41	"	"	.008	18.9	04 33	04 37	3
26374	HD 21661	03 24.7	+[illegible] 04	"	"	.008	16	04 49	[illegible]	3
	Focus Cal	0213								

SPECTROGRAPH HEATER NOT WORK

Dome Temp. 68F

Focus 15.31

Dome Temp. 67°

Transparency Conditions Clouds until 21:00

00h good

01h ¼ moon - sky brighter

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
W 57 m	69 16	0	6.38	B9	6-[illegible]	B8-B9 Pleiades 6	fine
W 1 12	[illegible]	0	5.72	B9	6-6-[illegible]	B8-B9 7	fine
W 45	[illegible] 58	0	6.27	B9	6-6-6	B8-B9 6	fine
W 52	46 42	1	6.0	B9	6-6-6	B8-B9 6	fine
W 1 11	55 25	2	6.43	B9	6-6-6	B8-B9	fine
E 0 26	+04 30	2	5.9	K0	6-6-6	set 5 Std Vel Star 6	fine
E 0 26	+04 30	2	5.9	K0	6-6-6	" 2	fine
E 0 11	" "	2	"	"	6-6-6	set 9 guided on red part of image 6	poor-fine
0 06 W	+62 51	1-2	7.8	B0 IV	6-6-6	set 5 Std Bin 8	fine
	+68 10	0-1	7.8	B8	6-	set 5 = Std Bin	
01 27 W	+68 10	0-1	7.8	B8	4-4-4	set 8 = Std Bin	fine - poor pointing
00 59 E	+47 55	0-1	8.5	K?	4-6-4	set 2 = Std Bin Focus Reset 15:45	fine
00 12 E	+54 55	1-2	5.61	B9	6-12	set 2 B8-B9 Pleiades 4 min ? I don't believe it 6	fine
0 32 E	+49 17	1	6.3	B9	6	set 5 " " They are always slowly - eq. mots. ok? 6	fine (B8) poor
						set 9	[illegible]
W 2 !	2	Pt	Cond				

Date Fri-Sat Aug 24/25 1962 Observer Sft - HV Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H
~~[illegible]~~	165814	18 02.7	-25 29	I-25	HaOb	.006	25.2	20 01	—	4
26375	HD 174853	18 47.5	+13 51	"	"	"		20 30	20 43	4
26376	HD 175744	18 51.7	+17 52	"	"	"	25.0	20 51	21 11	1
26377	HD 180553	19 11.9	+27 17	"	"	"	25.0	21 16	21 34	2
26378	HD 181828	19 16.9	+35 00	"	"	"	25.0	21 38	21 52	3
26379	HD 182618	19 20.4	+27 53	"	"	"	25.0	21 58	22 30	4
26380	HD 185330	19 33.5	+38 10	"	"	"	25.0	22 40	23 08	1
26381	HD 199892	20 54.9	+41 33	"	"	"	24.9	23 17	23 35	2
26382	HD 202862	21 13.6	+42 16	"	"	"	24.9	23 40	23 54	3
26383	HD 201288	21 57.1	+10 29	"	"	"	24.9	00 45	00 13	4

Sat Aug 25 1962 - I, SH, Pu - 143 visitors
closed between to first group + closed out for second group

Dome Temp. 75

Focus 15.55

Dome Temp.

Transparency Conditions Hazy

22:00 [illegible]

22:20 clouds increase.

22:40 clouds break!

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS				Quality
	-25 30	0	6.7	B8	6-	Set 5 B8-Bq	Too slow stopped	Sim 6	4316	
0 14 E	+13 54	0-1	6.07	Bq	6-6-6	Set 9 B8-Bq		Sim 6.	4312 16	fine
0 04 E	+17 55	0	6.39	Bq	6-6-6	Set 5 B8-Bq	32-12	Sim 6	19 23.	fine
0 14 W	+27 21	0	6.24	Bq	6-6-6	Set 5 B8-Bq		Sim 6.	24 28	fine *
0 26 W	+35 06	0-1	6.24	B8	6-6-6	" B8-Bq	51-25	"	31 33 34	fine
1 11 W	+28 00	0	6.31	B8.	6-6-6	" "		"	35. 37	fine
1 27 W	+38 16	0	6.33	B8	6-6-6	" "		"	43. 44	fine
0 32 W	+41 46	0	6.01	Bq	6-6-6	" "		"	48 49	fine
0 33 W	+42 30	0	6.04	B8	6-6-6	" "		"	53	fine
[illegible]	[illegible]	[illegible]	6.31	[illegible]	6-12	" "		#7	4357 [illegible]	good

2 P.H. +2 — h g

[illegible]

* [illegible]

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Date Mon-Tues - Aug 27/28 1962 **Observer** Cu - Pu **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.
26384	HD 196504	20 32.8	+26 07	I-25	IIaoB	.008	22.4	22 00	22 10	1
26385	HD 204038	21 20.8	+33 16	I-25	IIaoB	.016		22 25	23 09	2
26386	HD 202562	21 13.6	+42 16	I-25	IIaoB	.008		23 20	23 26	3
26387	HD 204754	21 26.7	+54 59	I-25	IIaoB	.008		23 34	23 42	4
26388	HD 217312	22 54.8	+62 32	I-25	IIaoB	.008	23.3	23 57	00:35	1
~~26389~~	~~HD 217224~~									~~2~~
26389 F	focus Test									2

clouded out at 00:35 but general

Note the L's are probably not accurate as flashlight was dead - Cu

Dome Temp. 66°

Focus 15.50

Dome Temp. 66°

Transparency Conditions cloudy till 21h
21:45 occasional cloud.
22:15 good.
00:25 cloud in SE, otherwise good.
00:50 clouded out — cloud all around

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 20 E	+26 18	0	5.50	B9	6-6-	Sat 5 B8-B9 Program (9) 6 4372 6 4376	fine
0 08 E	+33 31	0	8.0	A3	3-3-3	Lt 5 F Ed Binary (30) 8 4379 8 4409	fine
0 34 W	+42 31	1	6.04	B8	6-6-6	Lt 5 B8-B9 Program (5) 6 4412 6 4416	fine
0 40 W	+55 15	1	6.04	B9	6-6-6	Lt 5 B8-B9 Program (9) 6 4417 6 4421	fine
0 16 E	+62 50	1-2	7.8	B0 IV	6-6-6	Lt 5 Ed Ed Bin (39) 8 4424 8 4454	fine
					00/16	Sat 3	all clear

closed up at 1:30 — parts of the sky cleared temporarily
the picture looked in stable weather — [illegible]

[2 P.H. bad]

NB Need flashlight better
— electric or lift [illegible]
in the meantime this house may [illegible]
the observing [illegible] — P.

Date Aug 28/29 1962 Tu/We **Observer** [illegible] **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
1963-221	α Lyr	18356	+3845		4/4/14	28		1950	
1964-221	99 Her	18055	+3033		6/4/33	28		2010	
1965-221	R 394	16286	+0419		7/4/33	28		2028	
1966-221	R 394	16286	+0419		7/4/33	28		1944	
1967-221	α Lyr	18356	+3845		4/4/14	28		2112	
1968-221	M 56	19149	+3005		8/5/40	28		2135	2+15m
1969-221	16 Cyg B	19400	+5025		6/5/33	28		2208	
1970-221	16 Cyg B	19400	+5025		6/5/33	28		2218	
1971-221	16 Cyg B	19400	+5025		6/5/33	28		2228	
1972-221	R 505	20521	+5422		7/4/33	28		2250	
1973-221	R 505	20521	+5422		7/4/33	28		2300	
1974-221	NGC 7006	20553	+16[illegible]		8/5/40	[illegible]		[illegible]	[illegible]

Dome Temp. V 75°E

Focus CO_2 in 19:15

Dome Temp.

Transparency Conditions Tropical Air, Hazy at Low altitudes, probably not a very good night
2120 Altocum in S at 30° ALT
Night probably not P.C.
Low Cloud [illegible] 2300 EST

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
29m E		10"	0.04	A0V	EXT. ST		
20 W			5.0	F7V	MKΔ		
2 11 W			7 3	F9V	ΔHV	} SKY = 0	
2 27 W			7 3	F9V	ΔHV		
0 52 W			0.04	A0V.	EXT. ST		
0 39 W	10:50 W		9 6	X	⊕		
0.44 W			5.96	G2V	MKΔ		
0:54 W			5.96	G2V	MKΔ		
1.04 W			6.20	G5V	MKΔ		
0 14 W			7.17	K0III	HVΔ	} check next field	
0 23 W			7.17	K0III	HVΔ	} R 505 = HD 199131	
0 40 W	+1 00 W		11 6	I	⊕		

Date Aug 22/29 **Observer** – F **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P
26390	HD 217312	22 54.8	+62 32	I-35	Ea 1	008	23.0	00 07	00 35	3
26391	HD [illegible]	22 54.2	+47 22	"	"	"	23.1	00 41	01 19	4
26392	HD 217188	22 [illegible]	[illegible]	"	"	"		01 35	01 16	1
[illegible]	[illegible]	22 58.4 (1855)	+54 42 (1855)	"	"	"	23.2	01 41	01 09	2
26394	BD 247 281	23 03.2	+47 [illegible]	"	"	"	23.3	02 04	03 04	3
26395	HD 218551	23 21.7	+49 04			"	23.2	03 [illegible]	03 [illegible]	[illegible]
26396	HD 1[illegible]60	01 31.3	+[illegible] 12	"	"	"	22.9	03 48	04 00	1
26397	HD 10[illegible]43	01 32.6	+[illegible] 12	"	"	"	23.0	04 04	04 [illegible]	2
26398	HD 11[illegible]37	01 34.6	+61 12	"	"	"		04 12	04 [illegible]	3
26399	HD 11[illegible]3	01 34.9	+41 12	"	"	"	22.9	04 30	04 40	4
26400	HD 11[illegible]32	01 37.4	+34 22	"	"	"	23.2	04 [illegible]	04 53	1
Focus 7.4										

Dome Temp. 39° at 0h

Transparency Conditions Good - [illegible]

Focus 15.51 15.62 - 0.11 = 15.51 (22.2)

Dome Temp.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 12 E	+62 50	1-2	7.8	50 II	6-6-6	H-1 SB Field Clocks down Set 5 Sim 8 (10) 0076 0505	fine
0 52 W	+62 11	2-3	7.8	58	6-6-6	F EB " " " Set 5 Sim 8 (10) 0419 0419	fine
0 58 W	+59 34	3-2	6.4	B9	6-6-6	18-9 Ring Set 3 Sim 8 (10) 0440 0552	fine
0 [illegible] W	+55 00	1-2	5.5	B7	6-6-6	18-9 Drum Set 6 Sim 7 (10) 0518 0567	fine
1 56 E	+47 56	3⁻	8.5	~K	6-6-6	F EB Field clocks down Set 3 Sim 9 (10) 0571 0571	fine
1 54 E	+69 14	3	6.2	B9	6-6-6	12-9 " " Set 6 Sim 7 (10) 0707 0707	fine
0 31 W	+50 02	2⁺	6.6	B9	6-6-6	18-9 " " Set 3 Sim 7 (10) 0822 0822	fine
0 [illegible] W	+52 24	3	6.2	B9	6-6-6	18-9 " " Set 6 Sim 7 (10) 0877 0877	fine
0 [illegible] W?	+51 [illegible]	3	5.0	B8	9-9	[illegible] " " Set 6 Sim 7 (10) 0919 0919	fine
0 [illegible] W	+41 37	3	6.6	B9	9-9	18-9 " " Set 2 " " 0016 0016	fine
0 47 W	+39 38	2	6.4	B8	9-9	18-9 " " Set 2 Set 9 0066	fine
					9/16	[illegible] mag 4 X 4	[illegible]
						Dome [illegible] Field [illegible]	
	3 FU's [illegible]		ptg			Ptg [illegible]	
						[illegible]	
						FLASHLIGHT HERE [illegible]	

Date Wed/Thurs 1862 Aug 29/30 **Observer** MR – Pu **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
26401	HD 158263	17h 23.3m	+11° 29′	I-25	IIa-0b	set .008	+27.8	20:01	21:19	2
26402	HD 190020	19 57.9	+73 21	"	"	set .016	+27.8	21:49	23:14	3
26403	HD 204038	21 20.8	+33 16	"	"	"	+27.9	23:30	00:15	4
26404	HD 217312	22 54.8	+62 32	"	"	.008	+27.8	00:45	01:09	1
26405	HD 217224	22 54.2 (1855)	+67 52 (1855)	"	"	"	+27.8	01:22	02:02	2
26406	BD +47° 781	03 03.3 (1900)	+47 33 (1900)	"	"	.008	+27.8	02:31	04:11	3
26407	HD 21661	03 24.7	+49 04	"	"	"	+27.9	04:27	04:37	4
26407F	focus test									

Dome Temp. 78°F

Focus 15.59

Dome Temp. 74° F

Transparency Conditions Clds low in N at sunset
00:52 beautiful night - seeing very good.
~03:00 haze around horizon
04:10 generally clear - haze lessened

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2:06 W	+11° 24′	2	7?	A	6-6-6	Set 3 Clds 20:20 – 21:00 Field checks KA8X8 (30) 8 {4833, 4863}	fair
1:30 W	+73° 28′	2	8.5	F5	3-3-3	Set 3 " " EclB, F (120) 9 {4875, 4999}	fair
1:06 W	+33 30	2	8.0	A3	3-3-3	Set 5 " " EclB, F (30) 8 {5018, 5050}	fair
0:25 W	+62 50	2	7.8	B0	6-6-6	set 5 Field drawn SB, H1 (30) 8 {5055, 5087}	fair or poor
1:20 W	+68 09	1-2	7.8	B8	6-6-6	set 5 Field checks EclB, F (33) 9 {5097, 5129}	fair
0:45 E	+47 56	0-1	8.5	~K	6-6-6	set 5 Field drawn EclB, F (120) 9 {5133, 5239} 10 {5247, 5262} 11	good
0:35 E	+49 14	0	6.30	B9	6-6-6	set 5 Field checks B8-B9 (60) {5275, 5279}	fair
					20/16	set 9	fair
							ok

+ P.H.'s loaded

Fainter Bulb for the exposure meter has been put

Date Th/Fr 1962 Aug 30/31 **Observer** [illegible] **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I
1975-222	α Lyr	18h35.6m	+38°45'	4/4	14	28		19:45		
1976-222	δ Boo A	15 14.0	+33 27	6/4	33	28		20:05		
1977-222	δ Boo A	15 14.0	+33 27	6/4	33	28		20:15		
1978-222	72 Her	17 19.2	+32 32	6/5	33	28		20:28		
1979-222	M56	19 14.9	+30 05	8/6	40	28		20:52	[illegible]	
1980-222	M71	19 51.7	+18 40	8/6	40	28		21:23	[illegible]	
1981-222	α Lyr	18 35.6	+38 45	4/4	14	28		21:58		
1982-222	M72	20 51.0	-12 43	8/6	40	28		22:22	[illegible]	
1983-222	NGC 7006	20 53.3	+16 01	8/6	40	28		22:54	[illegible]	
1984-222	R 513	21 10.2	+17 35	7/4	33	28		23:26		
1985-222	R 513	21 10.2	+17 35	7/4	33	28		23:36		

Dome Temp. 81°F

Focus

Dome Temp. 75° at 0h

CO_2 in 19:00
V = 700

Seeing +10 good

Transparency Conditions Tropical air, very Hazy
Night probably not very good
Sky somewhat improved after 23:00

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0h 27m E		3"	0.04	A0 V		Ext. ST. Centering poor 2d time	
3:15 W			3.50	G8 III		Δ MK	
3:25 W			3.50	G8 III		Δ MK	
1:30 W			6.0	G0 V		Δ HV	
0:01+0:30 W			3.6	X		⊕	
0:01+0:[illegible] W			2.3	—		⊕	
1:44 W		4"	0.04	A0 V		Ext. ST	
0:04+0:04			10.2	IX		⊕	
0:18 W+0:33 W			11.5	I		⊕	
0:37 W			F9 VI	7.89		Δ HV	
0:47 W			7.89	F9 VI		Δ HV	

Date 72/Ex Aug 20/21 **Observer** – F **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H
26408	HD 204018	21h 30.8	+33° 16	J-25	IIaO	~~008~~ 016	26.7	00 00	00 22	1
26409	HD 17[illegible]	18h [illegible].7	+41° 08	"	"	008	26.8	00 31	00 5[illegible]	2
26410	HD 21[illegible]	23h 58.2	+67° 52	"	"	008	26.5	01 03	01 47	3
~~26411~~	~~HD 204038~~	~~21h 20.8~~	~~+33° 16~~	~~"~~	~~"~~	~~016~~		01 5[illegible]		~~4~~
26411	HD 204154	21h 25.7	+34° 54	"	"	008	26.8	01 55	02 03	4
26412	HD 204[illegible]	21h [illegible]	+33° 16	"	"	016	26.6	02 10	02 06	1
26413	HD 4[illegible] 791	02h ~~06.4~~	+42° ~~43.5~~	"	"	008	26.9	02 20	02 22	2
26414	HD 21661	03h 24.7	+49° 04	"	"	"	26.8	02 28	02 34	3
26415	HD 11905	01h 51.9	+41° 12	"	"	"	26.7	02 41	02 33	4
Fl	Focus Test									
Fl	"									

Sat. 130 Vertas showed Saturn Jeb. Ml + Cn

Dome Temp. 75°F at 0h

Focus 15.57 26°5C

Dome Temp.

Transparency Conditions Good Night - Very clear [illegible]

02 Mist [illegible]

03:40 Partial [illegible] NW

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
01 19W	+33 31	2⁻	8.0	A3	3-3-3	Set 3 F-EB Field Checks	fine
[illegible] 16W	+43 11	1⁺	6.4	A5	6-6-6	Set 6 N-58 Field Checks	fine
[illegible] 09W	+62 10	0⁺-2⁻	7.8	B8	6-6-6	Set 3 F-EB Field Checks	fine
[illegible] 10W	+55 14	1	6.0	B9	9-9	Set 6 BX-9 Field Checks	fine
[illegible] 00W	+13 30	1-2	8.0	A3	3-3-3	Set 3 F-EB Field Checks	fine
[illegible] 30 E	+42 56	1-2	8.3	K	6-6-6	Set 3 F-EB Field Checks	fine
[illegible] 36E	+69 12	3	5.3	B9	9-9	Set 3 BX-9 " "	guiding lp fine
[illegible] 16W	+41 28	2	6.6	B9	9-9	Set 6 BX-9 " "	fine
					20/16	Set 2	rel c to vi
					50/48	Set 10	
[illegible] PHs	Pended						
						Temp. Dep meter [illegible] set.	

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Date Jun 11 [illegible] Lyst 2-3 [illegible] **Observer** CW – HS **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H
26416	HD 174553	18 47.5	+13 51	Z-25	IIaO B	.008	24.5	19 43	19 53	1
26417	HD 172127	18 33.7	+43 08	"	"	"	24.7	20 01	20 19	2
26418	HD 190020	19 57.9	+23 21	[illegible]	IIaO B	.016	24.9	20 36	21 04	3
26418	HD 191243	20 03.8	+31 08	Z-25	IIaO B	.008	24.7	21 14	21 30	3
26419	HD 192659	20 10.9	+41 48	Z-25	IIaO B	.008	24.3	21 38	22 02	4
26420	HD 199892	20 54.9	+41 33	Z-25	IIaO B	.008	24.4	22 06	22 18	1
26421	HD 202862	21 13.6	+42 16	Z-25	IIaO B	.008	24.5	22 23	23 03	2
26422	HD 209258	21 57.1	+41 29	Z-25	IIaO B	.008	24.6	23 11	23 29	3
26423	HD [illegible]	[illegible]	[illegible]	[illegible]	IIaO B	[illegible]				4

Dome Temp. 73°

Focus 15.53

Dome Temp.

Transparency Conditions clouds 20° above horizon [illegible] 5E

20 45 Light cloud starting to move up from NW

21 10 clearing slightly

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 28E	+13 54	0-1	6.07	B9	9-9	lt 5 B8-B9 Program	fine
0 12W	+43 10	0	6.40	A5	6-6-6	lt 1 N SB	fine
	+73 32	0	8.5	F5	3-	lt 5 FEB 20 50 cloud	v. wk
0 07E	+34 16	0	6.02	B8	6-6-6	lt 8 B8-B9 Program	fine
0 12W	+42 58	0	6.37	B8	6-6-6	lt 1 B8-B9	fine
0 09E	+41 46	0-1	6.01	B9	6-6-6	lt 5 B8-B9	fine
0 16W	+42 30	0	6.34	B8	6-6-6	lt 5 B8-B9 22 22 25 clouds	fine
0 02E	+13 45	0	6.31	B8	6-6-6	lt 1 B8-B9	fine
						lt 1 B8-B9	
						0015 Completely Overcast	
						3P H Pmd.	

111

Mo/Tu.

(Gg) (MP)

Date Sep 3/4 1962 **Observer** F - F **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H
26423	35 Sgr	18 49.1	-22 45	I-25	IIaOB	008	23°.8	19:56	20:10	4
26424	HD172187	18 33.7	+43 08	"	"	"		20:20	20:40	1
26425	HD 190020	19 57.9	+73 21	"	"	01.6	23°.8	20:51	22:14 ⊛	3
26426	HD 204038	21 20.8	+33 16	"	"	01.6	23°.9	22.22	23:10	4
26427	HD 172187	18 33.7	+43 08	"	"	008	24°.0	23 35	00:01	1
26428	HD 217224	22 54.2	+67° 52	"	"	008	23°.8	00:08	00:54	2
26429	HD 1064	00 09.8	-10 07	"	IIaOB	008		01 03	01:12	3
26430	HD 1236	00 11.7	-20 46	"	IIaOB	008	23.8	01:30	01:34	4
26431	HD 2014	01 05.5	+37 12	"	IIaO	"	23.7	02 05	02 17	2
26432	HD 2537	01 22.0	+37 48	"	IIaO	"	23.7	02 31	02 35	3
26433	HD 9398	01 26.4	+24 18	"	IIaO	"	23.6	02 40	02 50	4
26434	HD 17936	03 05.5	+42 01	"	IIaO	"		02 00	03 06	2
26435	HD +47 781	03 06.4	+47 43.5	"	IIaOB	"	23.7	03 12	03 22	1
26436	HD 16727	02 58.8	+54 41	"	"	"	23.6	04 26	04 32	2
			NEXT	PAGE						
	Plates 26424 and 26427				Cont					
	Plates 26432									

Dome Temp. 71°E @ 20h 51°E @ 9h

Transparency Conditions Fair – cloud in S.W.

Focus 15.53 24.0°C

21h – Cloud gone

31h – Cloud in W – moved to S.W.

Dome Temp.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0:10E	-22 44	0	6.1	K3p	6-6-6	Set 3 9p 4' Field drift Seeing 7 (14) 57" 5780	fair
0:37W	+43 10	0-1	6.4	A5	9-9	N-SB Set 4½ Field ✓ Seeing 7 (12) 5733 5745	fair
0:51W	+73 28	0-1	8.5	F5	3-3-3	F-EB Set 3 Field ✓ Seeing 9 (100) 5751 5751	fair
0:40W	+73 27	0	8.0	F3	3-3-3	Set 3 F-EB Field Correct Seeing 9 (122) 5756 5976	fair
1:59W	+43 10	0	6.4	A5	6-6-6	Set 9 N-SB Field Correct & drift Seeing 7 (12) 5776 5990	fair
0:21W	+52 10	0-1	7.8	B8	6-6-6	Set 3 F-EB Field Correct Seeing 8 (14) 5982 6022	fair
0:10E	-09 49	0	5.7	B9	9-9	Set 6 SB-9 Seeing 6 (7) 6024 6026	fair
0:13W	+10 26	0⁻	6.4	B8	9-9	Set 6 EB-9 Field ✓ Seeing 6 (9) 6027 6032	fair
0:00E	+27 27	0⁻	5.7	B8	9-9	Set 3 EB-9 Seeing 6 (5) 6033 6040	fair
0:18E	+40 06	0⁻	6.3	B9	9-9	Set 6 EB-9 Field Check Seeing 6 (5) 6042 6047	fair
0:00E	+44 24	0⁺	6.2	B8	9-Set 3	Set 12 EB-9 Field drift Seeing 6 (5) 6048 6050	fair
0:26E	+42 3	1	6.0	B8	9-9	Set 6 EB-9 Seeing 6 (5) 6052 6056	fair
1:14E	+47 26	2⁻	8.5	K?	6-6-	Set 2 EB Field Check Seeing 9 (12) 6062 6062	fair
2:23W	+44 15	1	5.6	B8	9-9	Set 6 EB-9 Seeing 6 (4) 6065 6069	fair

(*) PH 2 came open – light [illegible] PLATE DISTORTED [illegible]

Sun: Mod [illegible] Excel Plate

CONTINUES FROM PREVIOUS PAGE

Date night Sept 2/4 am **Observer** (ms) - F **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H
26437	HD 23316	03 38.5	+55 37	I.25	IIaOB	.008	24°	04 37	04 44	3
26438	HD 23383	03 39.7	+55 37	I.25	IIaOB	.008	24	04 47	05 03	4
	Focus Test									
	Geny NEED IIaOB PLATES									

Dome Temp. .....

Transparency Conditions .....

Focus .....

Dome Temp. .....

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 19 E	+35 47	1+	6.2	B7	9-9	B8-9 Set: [illegible] Seeing 6 (4) 6191 5195	fair
00 06 E	[illegible]	0+	6.02	B9	9-9	B8-9 Clouds! Seeing 5 (4) 6196 5200	fair
					20/15		[illegible]
		1	PH		Cloudy	M=06	

Date Wed/Thurs 1962 Sep. 5/6 **Observer** MR-GE **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	1
26439	HD 172187	$18^h 33^m.7$	+43° 08′	I-25	IIaO-6	set .008	17.0°C	19 19	19 35	1
26440	HD 161285	17 39.6	+63 44	"	"	"	17.0	19 45	20 17	2
26441	HD 192666	20 10.9	-12 39	"	"	"	16.9	20 28	20 56	3
26442	HD 193452	20 15.2	-15 06	"	"	"	"	21 04	21 15	4

Dome Temp. 52° F

Transparency Conditions

Focus 17°.0 15.54 − .11 = 15.43

Dome Temp.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Seus	Ch.	Quality
0:21 E	+43° 10′	1	6.40	A5	6-6-6	Set 2 N-SB	(13)	7 {6222 6235	
1:17 W	+63 41	1	7.25	...	6-6-6	Set 5 KA8 ×8	(30)	8 {6239 6270	
0:38 E	−12 29	0	6.39	B9	6-6-6	Set 5 138-139 field ✓	(13)	7 {6274 6287	
[illegible]	−14 56	0	6.14	B9	6-12	Set 5 138-139 field ✓	~~(8)~~	7 {6289 6294	
						dis. 21:15 on rain at 00:30 closed up.			
						3 PH loaded IIaO B.			

Date th/Fr Sept 6/7 1962 **Observer** vdB Dy **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
1986-223	α Lyr	1835.6	+3845		4/4/14	28		1928	
1987-223	ι CrB	1607.6	+3635		6/4/33	28		1950	
1988-223	ι CrB	1607.6	+3635		6/4/33	28		1959	
1989-223	R427	1738.3	+3714		7/5/33	28		2016	
1990-223	R427	1738.3	+3714		7/5/33	28		2029	
1991-223	γ Dra	1755.8	+5130		5/5/33	28		2045	
1992-223	γ Dra	1755.8	+5130		5/5/33	28		2053	
1993-223	R467	1923.8	+2450		6/5/33	28		2108	
1994-223	R467	1923.8	+2450		6/5/33	28		2118	
1995-223	R476	1932.1	+3307		6/6/33	28		2134	
1996-223	R476	1932.1	+3307		6/6/33	28		2144	
1997-223	R480	1950.3	+1132		6/5/33	28		2200	
1998-223	61 Cyg A	2105.0	+3830		6/5/33	28		2215	
1999-223	61 Cyg A	2105.0	+3830		6/5/33	28		2224	
2000-223	61 Cyg A	2105.0	+3830		6/5/33	28		2235	

Dome Temp. ..... CO_2 in 19:00
V = 700

Focus .....

Dome Temp. ..... half mean up

Transparency Conditions ... OK, polar air, a few drifting Ci low in E.
21:00 very Fine

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0.15E		10"	0.04	A0V		Ext. St. (Vatw sun alt N CO_2 in) (very thin Ci) [illegible]	
2.29W		7"	4.74	K0III-IV		ΔHV	
2.38W		7"	4.74	K0III-IV		ΔHV	
1.27W		5"	8.37	G0V		ΔHV	
1:40W		5"	8.37	G0V		ΔHV	
1.38W		5"	2.22	K5III		ΔMK	
1.46W			2.22	K5III		ΔMK	
0:30W			6.19	F6V		ΔHV	
0.40W			6.19	F6V		ΔHV	
0.53W			6.60	G0V		ΔHV	
1:03W			6.60	G0V		ΔHV	
0:59W			6.14	G2V		ΔHV	
0.00			5.19	K5V		ΔMK	
0:10		5"	5.19	K5V		ΔMK Drifted !	
0:20			5.19	K5V		ΔMK	

Continued

Date th/Fr Sept 6/7 1962 **Observer** [illegible] **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P
2001-223	M71	19517	+1840		8/5/40	28		2252	2x+sky	
2002-223	7006	20593	+1601		8/6/40	28		2325	2x+sky	
2003-223	51 Peg	22556	+2033		6/5/33	28		00 01		
2004-223	51 Peg	22556	+2033		6/5/33	28		00 10		
2005-223	R551	23152	-1407		7/5/33	28		00 27	2x	
2006-223	R551	23152	-1407		7/5/33	28		00 37	2x+sky	
2007-223	M32	00 40.5	+4039		8/4/33	28		01 13	2x+sky	
2008-223	M32	00 40.5	+4039		8/4/40	36		0143	2x	
2009-223	M31	00 40.5	+4103		8/4/40	28		0205	2x+sky	
2010-223	ξ^2 Cet	02260	+0817		6/4/14	14		0245		
2011-223	ξ^2 Cet	02260	+0817		6/4/14	14		0303		

Dome Temp. .....

Focus .....

Dome Temp. .....

Transparency Conditions .....

22:30 very fine 03:00 isolated cumuli
01:45 PERFECT!
moon sets 2245

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1:53 W	1:5 W		8.3	—		⊕	
1:18 W	+ 1:18 W		11.45	I		⊕	
0.05 E			5.53	G4 V		Δ17K	
0.05 W			5.53	G4 V		ΔMK	
0.03 E			8.17	SdF8		ΔHV	
0.07 W			8.17	SdF8		ΔHV	
0.30 E	+ 0.10 E		8.8	G		Gal 2" x not well centered	} use same sky
0.05			8.8	G		Gal N.B multiply sky by 36/28	
0.30 W			5.0	G		Gal	
0.45 E			4.27	B9 III		Ext. ST 1.5" x poor centering	
0.27 E			4.27	B9 III		Ext. ST	

clouds

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⊙ 164 52 03.5

Date Fri/Sat Sept 7/8 1962 **Observer** Hd – Dg **Julian Day** 2437915.54

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I
26443	HD 161285	17 39.6	-63° 44	I-25	IaOB	set .008	18°C	19 54	20 16	1
26444A	HD 172187	18h 33.7	+43° 08	"	"	"		20 27	20 39	2
26445	HD 190020	19h 57.9	+73° 21	"	"	set 0.012	19.0	20 50	21 54	3
26446	HD 154447	19 29.5	-58 24	"	"	008	19.0	22 00	22 14	4
	"	"	"	"	"	"	"	22 14	22 24	4
26447	HD 212943	22 22.8	+4 42	"	"	"	19.0	22 32	22 37	4
								22 37	22 41	4
26448	HD 204035	21 20.8	+33 16	"	"	008	19.1	22 49	23 17	1
26449	HD 215512	22 54.8	+62 32	"	"	"	19.0	23 25	23 45	3
26444B	HD 172187	18 33.7	+43 08	"	"	"		23 55	00 21	2
26450	HD 217224	22 54.2	+67 52	"	"	"	19.0	00 33	01 07	4
26451	HD 1256	00 11.7	-20 46	"	"	"	19.0	01 17	01 31	1
26452	HD 1664	00 09.8	-10 07	"	"	"	19.0	01 37	01 47	2
26453	HD 204035	21 20.8	+33 16	"	"	"	"	01 58	03 18	3
26454	BD 47° 781	03 06.4	+47 43.5	"	"	"	19.2	03 30	04 34	4
26455	HD 21661	03 24.7	+49 04	"	"	"	19.1	04 44	04 52	1

Dome Temp. 65°

Focus 1544

Dome Temp. 56°

Transparency Conditions Clear.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS		Quality
W 1h.25	+63° 49'	3	7.25		6-6-6	set 5 KA 8x8 prog.	sens 7 6299 6311	
W 0h52	+43° 08'	3	6.40	A5	6-6-6	set 2 N binary	sens 6 6314 6320	
W 46m	+73° 29'	2	8.5	F5	5-4-5	set 5 F binary	sens 8 6333 6353	
W 1 32	58 30	3	7.5	K5	9-9	set 1/2 Std vel.	sens 7 6357 6373	
W 1 43		4	"	"	9-9	set 3 "	" 7 6374 6390	
	+4 27	3	5.9	K0	18	" 7 "	" 6 6396 6404	
E 55m		4			18	" 9½ " ~~F bin~~	" 6 6405 6413	
W 43m	33 30	4	8.0	A3	6-6-6	" 5 F Bin	" 8 6414 6444	
E 23m	62 51	3	7.8	B0 IV	6-6-6	" 2 Std Bin	" 8 6446 6452	
4 35W	+43 10	2	6.40	A5	6-6-6	Set 5 N Bin.	" 6 6484 6489	
1 00W	+68 11	3	7.8	B8	6-6-6	Set 5 F Ecl Bin	field check 8 6496 6520	
0 07W	-20 25	1-2	6.40	B8	6-6-6	Set 2 B8-B9	6 6521 6525	
0 23W	-9 50	0-1	5.74	B9	6-6-6	Set 5 B8-B9	6 6526 6530	
4 44W	+33 30	0-1	8.0	A3	6-6-6	Set 5 F Ecl. Bin	8 6531 6552	
0 14W	+47 57	1-2	8.5	K	6-6-6	Set 5 F Ecl. Bin	9 6553 6574	
0 14W	+49 14	1-2	6.30	B9	6-6-	Set 2 B3-B9	6 6575	

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Date Frid-Sat ~~Oct~~ Sept 7/8 Cartwright Observer Ist. Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I
26456.	HD. 22316. Focus Test.	3 30.5	+56 37	I-25	IIaOB	.008	19.1	04 59	05 05	1

Dome Temp. .....

Focus .....

Dome Temp. .....

Transparency Conditions ..... Very good night; 124

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 20 W.	+56 48	2	6.25	Bq	6-6-	Set 5 B8-Bq Sen 6 6680 6684	
						Set 9	
				2 PH's	loaded.		

125

⊙ 165 50 19.2
3 49 7.2

Date Sat Sep 8-9/62 **Observer** Hd - Cn **Julian Day** 2437916.5+

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.F
26457	HD 172187	18 33.8	+43 08	I:25	IIaO B	2.7 008	20.5	22 06	22 32	2
26458	HD 193722	20 16.7	+46 31	"	"	"		22 35	23 35	3
	Focus	OSB								

Dome Temp. .....

Focus .....15.47.....

Dome Temp. .....

Transparency Conditions .....Poor

Hd + Con thrown 160 [illegible] 8 + 5

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Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
12 49	43 10	0	6.4	A5	6-6-6	[illegible] 5 N Sp. Bin. [illegible] 6 6655 6643	
12 10	46 42	0-1	6.13	F9	6-12	" 5 B8-B9 pair, Star below [illegible] 6 6694 6692	[illegible]
					20/16	" 8.	[illegible]

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Date 1962 Sep 10-11 Mon/Tue **Observer** MR-CW **Julian Day** 2437918.5

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I
26459	HD 204038	21 20.8	+33 16	I-4	IIaO-G	.016	21.5C	22:43	23:40	4
26460	HD 217324	22 54.2	+67 52	I-5	IIaO-G	.012	21.0	23 41	0 43	
26461	HD 1279	0 11.9	+47 24	I-5	IIaO-G	.008		01 04	01 10	2
26462	HD 1064	0 09.8	-10 07	"	"	.008	21.0C	01 20	01 30	3
26463	HD 1256	0 11.7	-20 46	"	"	.008		01 36	02 00	4
26464	HD 7019	01 05.5	+37 12	"	"	.008	20.6	02 15	02 23	1
26465	HD 9298	01 26.4	+34 18	"	"	"		02 28	02 38	2
26466	BD +47°781	03 06.4	+47 43.5	"	"	.008	21.1	2 48	03 36	3
	Focus test	07C								

Dome Temp. 62°F

Focus 15.50

Dome Temp.

h omitted w 10:40 EDST (I)

23 [illegible] clouds low in NW

02h heavy black cloud in NW

[illegible] still windy

03 20 cloud moving up

Transparency Conditions [illegible] & wind [illegible] opened up but [illegible] 70's [illegible] allowed to dry. Humidity still at 22%.

g Time S.T.		Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
[illegible]	[illegible]	—	—	2-	8.0	A3	3-3-3	at 5 : F SB : field [illegible] (120) 9 [illegible]	
4[illegible]		0 48 W	[illegible]	1-0	[illegible]	B8	4-4-5	at 8 false start [illegible] at 5 SB field [illegible] (10) 9 [illegible]	
10	2	0 05 E	+47 42	2	5.77	B9	9-9	at 8 false start [illegible] at 5 B2-B9 field check. (9) 6 [illegible]	
[illegible]	3	0 18 W	-09 49	0-1	5.94	B9	9-9	at 5 " field check " 6 [illegible]	
[illegible]	[illegible]	0 47 W	-20 27	0	6.40	B8	9-9	at 5 only star in field B2-B9 " 6 [illegible]	
[illegible]	1	0 15 W	+37 30	0-1	5.7	B8	9-9	at 5 image very unsteady B2-B9 " 6 [illegible]	
[illegible]	2	0 10 W	+34 34	1	6.23	B8	9-9	at 5 B2-B9 " 6 [illegible]	
[illegible]	3	0 34 E	+47 55	1-0	8.5	K	6-12	at 5 3 25 clouds E3B field check 9 6 [illegible]	
							20/[illegible]	at 8	

03 40 looked like rain - cloud up

3 PM loaded E.B

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Date In/we Sept 11/12 1962 **Observer** vdB **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I
224-2012	61 Cyg B	2105.0	+3830		6/4/33	28		2153		

Dome Temp. 900V NoCO2

Focus .....

Dome Temp. .....

Transparency Conditions ..... partly cloudy

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Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
01:55W		3"	6.02	K7V	MKΔ	extra cave time to keep comp A out!	
				Telescope out			

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Date Wed/Thu Sept. 12/13 1962 Observer DG Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
~~[illegible]~~	~~[illegible]~~	~~[illegible]~~	~~[illegible]~~	~~[illegible]~~	~~[illegible]~~	~~[illegible]~~	~~[illegible]~~		
225 2013	ECrB	16 07.6	+36 35		5/5/33	28		19 37	
2014	ECrB	16 07.6	+36 35		5/5/33	28		19 47	
2015	π Her	17 13.7	+36 52		5/4/33	28		20 04	
2016	π Her	17 13.7	+36 52		5/4/33	28		20 14	
2017	72 Her	17 19.2	+32 32		5/5/33	28		20 34	
2018	72 Her	17 19.2	+32 32		5/5/33	28		20 44	
2019	110 Her	18 44.0	+20 30		5/4/33	28		21 12	
2020	110 Her	18 44.0	+20 30		5/4/33	28		21 22	
2021	γ Dra	17 55.8	+51 30		4/5/33	28		21 44	
2022	γ Dra	17 55.8	+51 30		4/6/33	28		21 54	
2023	γ Dra	17 55.8	+51 30		4/6/33	28		22 05	
2024	ε Cyg	20 47	+33 47		4/5/33	28		22 22	

Dome Temp. 73°F

Focus 15.51

Dome Temp.

900V
no CO_2

Transparency Conditions MoT photometric, probably OK for Δ
21:00 Night quite good. Full Moon
22:30 Cloudy towards

132

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
			~~4.4~~	~~A5~~		~~[illegible]~~	
2:42W		3"	4.74	K0III-IV	ΔMK		
2:52W			4.74	K0III-IV	ΔMK		
2:02W			3.4	K3II	ΔMK		
2:12W			3.4	K3II	ΔMK		
2:28W				G0V	ΔHV		
2:32W				G0V	ΔHV	2d x [illegible]	
1:40W				F6V	ΔMK		
1:50W				F6V	ΔMK		
3:01W				~~G5~~	ΔMK		
3:11W				K5III	ΔMK		
3:21W				K5III	ΔMK		
0:58W				K0III	ΔMK	cloud drifting W	

Date 11/sat Sept 16/15 1933 **Observer** [illegible] **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
226-2025	α Boo	1413.8	+1924		4/4/33	28		1910	
226-2026	α Boo	1413.8	+1924		4/4/33	28		1916	
226-2027	π Her	1713.7	+3652		4/6/33	28		1931	
226-2028	π Her	1713.7	+3652		4/6/33	28		1940	
226-2029	R467	1923.8	+2450		5/5/33	28		1955	
226-2030	R467	1923.8	+2450		5/5/33	28		2005	
226-2031	R476 (not)	1932.1	+3307		5/6/33	28		2020	2x+5m
226-2032	R476 (not)	1932.1	+3307		5/6/33	28		2035	
226-2035	44 Sg	2029.6	+3648		6/4/33	28		2117	
226-2033	R476	1932.1	+3307		5/5/33	28		2052	2x+5m
226-2034	R476	1932.1	+3307		5/5/33	28		2102	
226-2036	44 Sg	2029.6	+3648		6/4/33	28		2127	2x+5m
226-2037	5 Sg	2044.7	+3345		5/3/33	28		2142	
226-2038	5 Sg	2044.7	+3345		5/3/33	28		2154	
226-2039	61 Sg B	2105.0	+3830		6/4/33	28		2207	
226-2040	61 Sg B	2105.0	+3830		6/4/33	28		2217	2x+5m

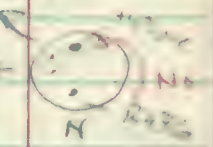
Dome Temp. NO CO_2

Focus V = 900

Dome Temp.

Transparency Conditions very Fine

Almost Full moon

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
04:15W			0.06	K2III p		ΔHV	
04:21W			0.06	K2III p		ΔHV	
01:35W			3.4	K3II		ΔMK	
01:44W		5"	3.4	K3II		ΔMK	
00:10E		3"	6.19	F6V		ΔHV	
00:00			6.19	F6V		ΔHV	
00:08W			6.60	G0V		ΔHV	
00:23W			6.60	G0V		ΔHV (~~[illegible]~~) ~~wrong star~~?	
00:08W			6.17	F5Iab		ΔMK	
00:40W			6.60	G0V		ΔHV	
00:50W			6.60	G0V		ΔHV	
00:18W			6.17	F5Iab		ΔMK	
00:20W		7"	2.45	K0III		ΔMK	
00:30W			2.45	K0III		ΔMK	
00:20W			6.02	K7V		ΔMK	
00:30W			6.02	K7V		ΔMK	

Continued

Date Fr/Sat Sept 14/15 1962 **Observer** [illegible] – H-S **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	
226 – 2041	61 Cyg A	21 05.0	+38 30		6/3/33	28		2234		
226 – 2042	61 Cyg A	21 45.0	+38 30		6/3/33	28		2244		
226 – 2043	ζ Peg	22 05.2	+25 04		5/3/33	28		2258		
226 – 2044	ζ Peg	22 05.2	+25 04		5/3/33	28		2308		
226 – 2045	η Peg	22 41.1	+30 00		5/3/33	28		2314		
226 – 2046	η Peg	22 41.1	+30 00		5/3/33	28		2324		
226 – 2047	HR8752	22 58.5	+15 40		5/5/33	28		2345		
226 – 2048	HR8752	22 58.5	+15 40		5/5/33	28	17.9	2355		
2646 7	HD 7546	01 10.5	47 33	I-25	IIaO b	008	17.7	0042	0118	1
2646 8	" M260	01 35.3	60 32	"	"	"	"	0229	0247	1
2646 9	BD +47°781	03 06.4	47 43	"	"	"	17.3	0309	0510	2
	Pleiades									

Dome Temp. .....

Focus .....

Dome Temp. .....

Transparency Conditions ..... Perfect .....

Full moon

0330 Some Thin Clouds

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
00 30W			5.19	K5V	MKΔ		
00 40W			5.19	K5V	MKΔ		
0112W		6"		F5V	MKΔ		
0122W				F5V	MKΔ		
0055			2.96	B2 III-III	MKΔ		
005W		8"	2.96	B2 III-III	MKΔ		
0 05W			4.99	G0 Ia	MKΔ		
015W			4.99	G0 Ia	MKΔ		
0039E	+4752	00	6.45	B8	6-6-6	Set 5 B8-B9 Prog. #7 7084 7096	
0025W	6050	00	6.58	B8	6-6-6	" " " " #7 7130 41	
0122W	4754	00	8.5	K	6-6-6	" 5 Ecl Bin F. #9 7143 7218	
					20/1	" 8	
						IPH Found in Prog.	

137 | 180 visitors Saturn shown

Date Sat/Sun Sept 15/16 1962 **Observer** vdS – I **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P
227-2049	ε Cyg	20 44.7	+33 49		5/4/33	28		21 35		
227-2050	η Peg	21 42.8	+17 09		6/4/33	28		21 47		
227-2051	η Peg	21 42.8	+17 09		6/4/33	28		21 57		
227-2052	1 Peg B	21 20.3	+19 38		6/4/33	28		22 10		
227-2053	1 Peg B	21 20.3	+19 38		6/4/33	28		22 20		
227-2054	ε Peg	21 42.2	+09 40		6/3/33	28		22 31		
227-2055	ε Peg	21 42.2	+09 40		6/3/32	28		22 41		
227-2056	α Aqr	22 03.7	−00 30		6/3/33	28		22 52		
227-2057	α Aqr	22 03.7	−00 30		6/3/33	28		23 02		
227-2058	η Peg	22 41.1	+30 00		5/5/33	28		23 17		
227-2059	η Peg	22 41.1	+30 00		5/4/33	28		23 27		
227-2060	R 540	22 43.8	+30 14		6/5/33	28		23 43		
227-2061	R 540	22 43.8	+30 14		6/5/33	28		23 53	2x + sky	
26470	HD 16440	2h 33.2	+68 03	I25	IIaO3	008	17.0°C	00h 45	02h 28	3
26471	BD +41° 781	3h 06.4	+47 43.5	I25	IIaO3	008	17.0°C	02 42	04h 41	4
	Focus	Test	078/	174						

Dome Temp. 46°

Focus 15.43

Dome Temp.

V=750
NOCO2

Transparency Conditions Very Fine ✓

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0.14W		5"	2.45	K0III	MKΔ		
0.31E			4.4	G5Ib	MKΔ		
0.21E		7"	4.4	G5Ib	MKΔ		
0.14W			4.09	K1III	MKΔ		
0:24W			4.09	K1III	MKΔ		
0:12W			2.4	K2Ib	MKΔ		
0:22W			2.4	K2Ib	MKΔ		
0:12W		10"	3.1	G2Ib	MKΔ		
0:22W			3.1	G2Ib	MKΔ		
0:02E			2.96	K1 G2 III-IV	MKΔ		
0:09W			2.96	K1 G2 III-IV	MKΔ		
0:25W			6.37	K1 III-IV	HVΔ		
0:35W			6.37	K1 III-IV	HVΔ		
00h48E	+68°19	0-+1	8.0	B7III	6-6-6	vdB hi lum near Eta Cas Sep 5 Lum 9	1227 B47
00h54W	+47°56	0	8.5	~K	6-6-6	F Eclip Binary Sep 5 Lum 9	1265 H73
					20/15	Sep 9 3PH loaded in fig	

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Date Tues Sep 18-19/52 **Observer** Yd **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P
2								~~19 25~~		
26468	HD187691	19 46.2	+10 10	J.25	IIaOB.	008	+16.1	19 37	19 59	1
	"	"	"	"	"	"	"	20 04	20 22	1

Dome Temp. 59F

Focus 15.41

Dome Temp.

Transparency Conditions

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
						~~runs 6~~ 7426	
E 17m	-10 16	0	5.8	Fg	6-6-6	~~rel z~~ Std Vel runs 6 7478	
						9 55	
W 7m						" 5 " (at two on field) runs 6 7487	
						7490	
						rain!	

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Date Wed Sept. 19/20 1962 **Observer** Dg **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.
26469	HD 192659	20 10.9	+41 48	I-25	IIaO B	set 0.008	+13.2 C	21 42	22 40	2
26470	HD 212454	22 19.5	+56 47	"	"		"	22 44	23 10	3
26471	HD 216523	22 48.5	+49 53	"	"	"	"	23 20	23 35	4

Dome Temp. 40° F

Focus 15.37

Dome Temp.

Transparency Conditions

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
[illegible] 4W	+42° 00	0	6.37	B8	6-6-6	105 B8-B9 [illegible]	
0° 28 W	+57° 06'	0	6.16	B8	6-6-6	106 [illegible]	
[illegible] 57 W	+59° 04'	0	6.42	B9	6-6-	107 Rain	
please give Hr L from now on!!					10-10-	109 Fair Test	

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Date Su/170 1962 Sept 23/24 **Observer** vdB **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.
228-2062	2 Lyr	18 35 6	+38 45		4/4/14	28		1856		
228-2063	110 HU	18 44 0	+20 30		6/4/33	28		1918		
228-2064	110 HU	18 44 0	+20 30		6/4/33	28		1928		
228-2065	R 427	17 38 3	+37 14		8/3/33	28		1944		
228-2066	R 427	17 38 3	+37 14		8/3/33	28		1954	2×4m	
228-2067	M 71	19 51 7	+18 40		8/6/40	28		2018	2×2m	
228-2068	M 72	20 51 0	-12 43		8/5/40	28		2101	2×12m	
228-2069	NGC 7006	20 59 3	+16 01		8/6/40	28		2133	2×15m	
229-2070	α Aqr	22 03 7	-00 30		5/5/33	28		2207		
228-2071	α Aqr	22 03 7	-00 30		5/5/33	28		2217		
228-2072	ι Peg	22 05 2	+25 04		5/5/33	28		2230		
228-2073	ι Peg	22 05 2	+25 04		5/5/33	28		2242		
228-2074	R 551	23 15 6	-14 07		8/3/33	28		2302		
228-2075	R 551	23 15 6	-14 07		8/3/33	28		2317	2×10m	
228-2076	M 32	00 40 5	+40 39		8/4/40	28		2335	2×15m	

Dome Temp. .....

Focus .....

Dome Temp. .....

CO_2 in 1810
V = 700

Transparency Conditions ..... Slight haze, probably OK not AOK
2700 OK

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 20 W		8"	004	A0V		EXT. ST	
0 30 W		8"		F6V		MKD	
0:40 W		5"		F5V		MKD	
2:02 W			837	G0V		ΔHV	
2:12 W			837	G0V		ΔHV	
2:23 W	+0:50		8 3	G5	—	⊕	[illegible]
2:38 W	+0:48		10 24	G3	IV	⊕	
0:37 W	+0:50 W		11 1.5	F2	I	⊕	
0:40 W			3 1	G2IV		MKD	
0:46 W		4"	3 1	G2IV		MKD	
0:50 W		5"		F8V		MKD	
0:55 W				F8V		MKD	
1:16		8	7-8 W	F8		ΔHV	
0:56		8	7-8 W	F8		ΔHV	
1:01	[illegible]	8	8	G		—	[illegible]

Date [illegible] Sept 22/1962 Observer [illegible] Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I
26476 a	HD 317906	22 58.9	+27 32	I-25	IIaOk	.008	13.0	0:59	1:07	1
26472 b.	[illegible] 356	23 02.2	+24 56	"	"	"	—	1:25	1:55	2
26473	HD 9298	01 26.4	+34 15	"	"	"	12.2	2:05	2:35	2
26474	HD 14272	02 13.4	+39 23	"	"	"	12.0	2:42	3:12	3
26475	HD 16204	02 29.2	+39 15	"	"	"	11.7	3:28	3:58	4
26476	HD 25152	03 54.7	+36 44	"	"	"	11.7	4:06	4:38	1
	[illegible] Test									

Dome Temp. .....

Transparency Conditions ..... 1.30 [illegible]

Focus .....1.5.48 R ..... -0.4 15:37

Dome Temp. .....

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
57 W.	+27 50	1	2.6	M2II-III	6-6-6	Set 4 Fe Ca bw. Sec 14 @ 7680 7695	
2 42 W.	+25 14	1-0	5.0	dK0	6-	Set 25 Iphona sep. II. & 17. " 30 min 1½ cat.	
58 W	+34 31	0	6.2:	B.8	6-6-6	" 7 tried unpressing frame 7700 B3-B9. Sec 4 7704 7705	
0 47 W	+29 25	1-0	6.1/6	B9.	6-6-6	" 5 " Sec 4 7709 7716	
1 18 W	+39 26.	0	6.2:6	B9	6-6-6	" 5 " " 7718 7716	
0 32 W.	+36 51	0	6.31	B9	6-6-6	" 5 " " 7719	

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Ivy Wilson
Guests Coutts
Hamilton

Date Wed Sept 26-27/62 **Observer** Hd **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
26477	HD 174953	18 47.5	+13 57	I-25	IaD B	008	+14.6	19 3.5	20 25

Dome Temp. .....

Focus 15.39

Dome Temp. .....

Transparency Conditions .....

SAT Sep 29/30 Cloudy 165 people. Showed Moon movie & demonstrated telescope

148 Dim 59 by Hallgren

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
15	14 39	-13 54	0	6-07	B9	6-6-6	B_2 - B9 hmy set 2 sens 6 7722 7726½

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Date Sun Sep 30 - Oct 1 / 62 **Observer** Hd - F **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	
26482	HD 204754	21 25.7	+54 59	[illegible]	[illegible]	008	14.3	23.22	23 36	3
26483	HD 204038	21 20.8	+33 16	"	"	016	14.7	23.41	00 11	4
26484	HD 210745 (5 Cep)	22 07.4	+57 42	"	"	008	[illegible]	01 19	01 3[illegible]	1
[illegible]	HD 222107 (λ Cep)	[illegible]	[illegible]	"	"	"	[illegible]	01 39	01 5[illegible]	[illegible]
26486.1	HD [illegible]	[illegible]	[illegible]	"	"	"		02 02	02 03	[illegible]
[illegible]								02 0.05	02 08	
[illegible]	HD [illegible]	[illegible]	[illegible]	"	"	"	14.8	02 18	02 23	4
26488	HD [illegible]	[illegible]	[illegible]	"	"	"	14.7	03 31	[illegible]	[illegible]
26489	HD 157227	02 35.8	[illegible]	"	"	"		02 49	02 53	[illegible]
26490	HD [illegible]506	02 43.4	[illegible]	"	"	"	14.7	03 01	03 07	[illegible]
26491	HD 10736	03 07.5	[illegible]	[illegible]	[illegible]	[illegible]		03 [illegible]	[illegible]	2
				[illegible]	[illegible]	[illegible]	[illegible]	plates		

Dome Temp. 55

Focus 15:40

Dome Temp.

Transparency Conditions

Cloudy earlier

0:30 Cloud in N. - Heavy

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 28	55 15	1	6.04	B9	6-6-6	25 B8-B9 prong zens 6 7728 7732	Fine
4 07	+33 32	1	8.0	A3	3-3-3	guiding badly F-EB 4 all OK (30) zens 8 7733 77	FINE
						0:40 star focused 00:55 clear in W :45 patchy in W - cloudy elsewhere	
1 45	+58 00	1+	3.6	K1IG	6-6-6	5Ori F-Ca Mv (1) zens 4 7726 7731	Ca wh
2 41	+46 15	1+	4.3	G7	6-6-6	Cet 5 F-Ca Mv (10) zens 4	Ca Fine
01 37		2	3.6	F0III	9-9	Sat 1 F-Ca Mv (12)	Ca Fine
01 30	+13 27					Sat 7	Ca Fine
[illegible]	[illegible]	2	[illegible]	B9	[illegible]	[illegible]	Fine
[illegible]	[illegible]	2	[illegible]	B8	[illegible]	[illegible]	Fine
00 15		1	[illegible]	B9	[illegible]	[illegible]	Fine
[illegible] 43	[illegible]	2	3.7	K3IG	no comp	[illegible] F-Ca Mv	Ca [illegible]
[illegible] 39	[illegible]	1	[illegible]	[illegible]	[illegible]	[illegible] B8-9 zens (10)	Fine
						01:30 Clouds [illegible]	
						VERO F - [illegible]	

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Date [illegible] **Observer** [illegible] **Julian Day** [illegible]

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	HD [illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	03 49	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible] HD [illegible]	[illegible]	+33 00	[illegible]	[illegible]	[illegible]	14.7	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	04 30.2	+16 19					[illegible]	[illegible]	[illegible]
[illegible]								[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	14.6	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	05 49.9	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]
[illegible]	HD [illegible]							05 11	05 1[illegible]	[illegible]
[illegible]	HD [illegible]	05 51.0	+09 29					05 18	05 [illegible]	[illegible]
[illegible]	FOCUS TEST									[illegible]

Dome Temp. .....

Focus .....

Dome Temp. .....

Transparency Conditions .....

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 29 W	+50 47	1	6.25	B7	6-6-	Sat 3 B8-9 Fuzzy	
0 21 W	+32 45	1	6.02	B7	7-9	Sat 2 B8-9 " "	
0 14 W	-52 15	2	4.3	G5 III	9-9	Sat 4 F6 P. Some mist	Ca Fine
0 10 E	+30 42	2	2.9	K5 III	18	Sat 2 F6 Mv 16	Ca Good
0 [illegible]			1.1	K5 III ?	9	Sat 1 F6 Mv	
0 23 W	+18 24	1			No comp	Sat 4	
0 03 W	+28 22	1	6.02	B8	6-6-6	Sat 3 B8-9	
0 [illegible] E					18	Sat 7 F6 Mv	
0 [illegible] E		1	0.9	M5 III	No comp	Sat 10 F6 Mv	
0 05 E	+09 29	1	5.0	B9	6-6-6	Sat 7 B8-9	
					24/16	Sat 0	
						2125 DOWN (too early!)	
		2 PH 4			Cloud		
						0 3 Play fields closed	
						03 30 Star on left	
		RANK:				EXP METER NOT [illegible]	

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Date 10/11 OCT 1-2 1962 **Observer** vS **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I
229-2077	2 Lyr	18 35.6	+38 45		4/4/14	20		1856		
229-2078	R402	16 52.0	+42 54		6/5/33	28		1918		
229-2079	R402	16 52.0	+42 54		6/5/33	28		1928		
229-2080	M71	19 51.7	+18 40		8/5/40	28		1947	2x +15sky	
229-2081	M72	20 51.0	-12 43		8/5/40	28		2022	2x +5sky 2x	
229-2082	NGC 7006	20 59.3	+16 01		8/6/40	28		2103	2x +25sky	
229-2083	R505	20 52.1	+54 22		7/4/33	28		2143		
229-2084	R505	20 52.1	+54 22		7/4/33	28		2153	2x +5sky	
229-2085	R540	22 43.8	+30 14		6/5/33	28		2215		
229-2086	R540	22 43.8	+30 14		6/5/33	28		2223		
229-2087	R555	23 27.5	-04 45		6/5/33	28		2238		
229-2088	R555	23 27.5	-04 45		6/6/33	28		2248		
229-2089	R555	23 27.5	-04 45		6/6/33	28		2258		
229-2090	M31	00 40.5	+41 03		7/5/40	28		2312	2x +5sky	
229-2091	M32	00 40.5	+40 34		7/5/4	28		2350		

Dome Temp. .....
Focus .....
Dome Temp. .....

CO_2 in 1800
V = 750V

Transparency Conditions ... Ci up to 10° ALT in W and S
wind from N. Resid sky OK, not AOK
2200 Fine
2400 Fine

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 50W		5"	0.04	A0V		EXT - Standard	
2:55W		5"	6.81	G0V		ΔHV	
3:05W		10"	6.81	G0V		ΔHV	
0:26W	+0:40W	–	8.3	G6		⊕	
0:00	+0:08W		10.24	G3		⊕	
0:34W	+0:45W		11.45	F2		⊕	
01:18E			7.12	K0 III		ΔHV	
01:28E			7.12	K0 III		ΔHV	
00 03E			6.37	K1 III-IV		ΔHV	
00:07W			6.37	K1 III-IV		ΔHV	
00:20E			6.23	K3 III		ΔHV Ampl too Small	
00:10E			6.23	K3 III		ΔHV	
00 00			6.23	K3 III		ΔHV	
00 55E			5.0	G		} use same sky	
00 20E			8.8	G		} use same sky	

See Next Page.

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Date Oct 12/62 Cont'd **Observer** — HV **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.
26500	HD 7546	01 10.5	47 33	I-25	IIaOb	.008	15.3	01 11	01 33	3
26501	" 8837	01 22.0	39 48	"	"	"	15.5	01 38	02 04	4
26502	" 11291	01 45.8	+0 18	"	"	"	"	02 12	02 20	1
26503	" 11905	01 51.9	41 12	"	"	"		02 28	02 55	4
26504	" 25155	03 34.9	+17 00	"	"	"	15.3	03 41	04 11	5
26505	" 26676	04 08.1	+09 58	"	"	"	"	04 19	05 15	4
	Plane Test									

Dome Temp. +54° F

Transparency Conditions Good

Focus 15.40

Dome Temp.

Trans. W/ dec clamp + clutch

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0043 W	47 52	1-2	6.45	B8	6-6-6	Set 5 B8 B9 Pro	#6 8076 3082
0103 W	40 05	0-1	6.34	B9	6-6-6	" 5 " "	#6 3083 8088
0055 W	50 36	0-1	5.62	B9	18	" 5 " "	#6 3090 8095
0125 W	11 30	0	6.56	B9	6-6-6	" "	#6 3097 8102
0039 W	47 09	0-1	6.28	B9	6-6-6	" "	#6 8103 8108
0129 W	10 05	0-1	6.20	B8	6-6-6	" "	#6 2110 8115
					20/15	" 9	
						2 P. Hl. + 8 in Dome	

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Date Fri. Oct 12-13/62 **Observer** Pa Hd. – I **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I
26506	HD 180553	19 11.9	+27 17	I-25	IIaO b	008	+17.9	18 51	19 39	1
26507	HD 196504	20 32.8	+26 07	"	"	"	+17.9	19 53	20 17	2
26508	HD 222207	23 27.5	+41 57	"	"	"	+17.9	20 35	21 19	3
26509	HD 212454	22 19.3	+56 47	"	"	"	+18.0	21 34	22 58 ?	4
26510	HD 216057	22 44.6	+53 53	"	"	"	+17.9	22 48	23 36	1
26511	HD 584	0 5.2	+56 36	"	"	"	+17.2	23 14	23 40	2
26512	HD 2626	0 24.8	+59 25	"	"	"	+17.1	23 46	00h 10	3
26513	HD 962	1 29.2	+73 47	I25	IIaO b	008	+17.7	00h 21	01h 03	4
26514	Focus Test			OTB/1TA						

Sat. Oct 13, 1962 UB/I/S#

180 persons (at least!)

– showed Jupiter

Dome Temp. 52

Focus 15.44

Dome Temp.

Transparency Conditions

– clouded out for ... at 1:00 EST
Gave up at 2 AM

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1h 31m W	27 24	0	6.24	B9	6-5-6	Set 5 B8-B9 prog. seq 6	8124 8128
0h 48m W	26 17	0	5.50	B9	6-6-6	Set 5 B8-B9 prog. seq 6	8129 8133
1h 10m E	42 16	0	6.8	B9	6-6-6	" N Bin seq 7	8136 8149
0h 42m W	57 05	1	6.14	B8	6-6-6	" B8-B9 prog (Plate broke) seq 8	8152 8162
1h 25m W	54 11	1	6.03	B8	12-6	" * B8-B9 (clouds) seq 6	8187 8191
0h 38m W	56 56	1	6.49	B8	6-6-6	" B8-B9 check field as doesn't seem not resemble one in book. seq 6	8193 8197
1h 40m W	59 46	0	5.6	B9	6-6-6	" B8-B9 seq 6	8125 8128
0h 36m W	74 05	-1	6.37	B8	6-6-6	" B8-B9 PR 449 very thin seq 6	8204 8208
					20/15	Set 5	

1 PH + 1 box in Dome

– viewing thru alternate finder telescope very poor

* 2 numbers on this plate, 2 different exp.

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Date Tue-Wed October 16-17 / 1962 **Observer** Dq - Hr **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I
26515	HD 204038	21h 20.8	+33° 16	I-25	IIa-0b	Slit .016	19.7°C.	20 38	00 12	2
	~~HD 21242~~									
26516	HD 21242	03 20.5	+28 23	"	"	008	19.8°	0032	01 48	3
26517	BD+47°781	0306.4	47 43.5	"	"	.016	19.5	0202	0546	4
	[illegible]	[illegible]	073	"	"	"				

Dome Temp. 60°F

Focus 15.47

Dome Temp.

Transparency Conditions Clear - occasional clouds and fog

Cloudy Intervals after midnight

...g Time S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.		REMARKS	Quality
2	0412W	+33° 32	0	8.0	A3	3-3-3	Set 5	Eclips. Bin. (F) Sens. 8 8212 clouds from 21:25 to 22:45 more clouds!	
3	0013E	+28 32	00	7.29	G5e	6-6-6	Set 5	(NSB Prog. #7 8245 8367	
	0400W	47 58	00	8.5	K	3-3-3	" "	Ecl Bin. (F) fog #9 8369 8487	
						1/8	" ?		
								21:4. Fog — ? Dome.	

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Date Wed-Thur Oct 17-18 1962 Observer Ed - L - I RM Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.
26518	HD 204038	21 20.8	+33 16	I-25	IIaob	set .016	+14.2	18 40	20 26	1
26519	HD 216057	22 44.6	+53 53	I-25	IIaob	.008	+14.1	20 47	21 05	2
26520	HD 217833	22 58.4	+54 42	I-25	IIaob	.008	+14.2	21 23	21h 43m	3
26521	" 217224	22 54.2	67 52	"	"	"	+14.2	21 57	23 47	4
26522	HD 16066	2 29.8	+67 38	I25	IIaoB	.008	+13.8	00h 32	1 39	1
26523	HD 26571	4 07.0	+22 09	I25	IIaoB	.008	+13.8	2h 09	2h30	2
26524	HD 31747	4 53.3	+14 24	I25	IIaoB	.008"	+14.0	2h 49	3h00	3
	Focus Test 17A/0TB									

Dome Temp. 54°

Focus 15.39

Dome Temp. 46°F

Transparency Conditions 19h scattered cloud from NW. Heavy cloud from NW. 19h is clearing. 1:45 EST: some cloud in west. 2:10 general high thin cloud — clouded out ~at 3

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Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0h 27m W	+ 33° 31'	0	8.0	A3	3-3-3	Set 5 F eclipsing bin. (30) Seq 8	8457 8519 8519
0h 15m E	+ 54° 13'	0	6.05	B8	6-6-6	Set 5 B6 - B8 Prog. Seq 6	8523
0h 09m W	+ 55° 02'	0	6.45	B9	6-6-6	Set 5 B8 - B9 Prog. Seq 6	8524 8528
2 17 W	68 10	0-1	7.8	B8	6-6-6	Set 5 F Ecl. Bin. " 8	8530 8560
0h 31 W	+67 55	-1	7.7	F2II	6-6-6	Set 5 vdB hi-lum stars, no Ha's Seq 8	8573 8593
0h 13' E	+22 18	-1	6.11	B8	6-6-6	Set 5 B8 - B9 Prog Seq 6	8596 8601
0h 25 E	+14 29	-∞	8.0	B9	6-12	Set 5 B8 B9 Prog incomplete Seq 8	8602
					20/15	Set 8	

3 PH's loaded + one on hand

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Date Thu. Fri. Oct. 18-19, 1962 **Observer** Dg - F (F DM) **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
26525	HD 217906	22 38.9	+27 12	[illegible]	IIa-J	108	13.8°	23:45	00 01	4
26526	1013	00 09.4	+19 39	"	"	"		00 06	00 40	1
26527	HD 6860	01 04.1	+35 05				14.2	00 48	01 54	2
26528	HD 17506	02 43.4	+55 29	I 25	IIaoB	[illegible]	14.2	01:02	01 24	3
26529 .1	HD 18884	02 57.1	+03 42	I 25	IIaoR	[illegible]	14.2	01:30	01 36	4
.2	"							01:36	01 50	
26530	BD+47 781	03 06.4	+47 43.5	"	"	"	14.0	02:05	03 53	1
26531	HD 21242	03 20.5	+28 23	"	"	"	13.7	03:59	04 59	2
26532 .1	HD 29139	04 30.3	+16 19	"			14.0	5 09	5 [illegible]	3
.2	"								5 13	3
.3	"								5 15	3
26533	HD 31398	04 50.5	+33 00	"	"	"	14.0	5 20	5 30	4
26534 .1	HD 39801	05 49.8	+07 23					5 34	5 35	1
.2								5 35	5 38	1
.3								5 38	5 42	1

Dome Temp. 54°F

Focus 15.39

Dome Temp.

Transparency Conditions v. Poor & passing cloud
02h a bit improved, seeing OK but
very hazy with bright moon

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS			Quality
01 20		0	2.6	M2 II-III	6-6-6	ι Peg	F-Ca Mv	Set 3 rens 4 (20) 8607 8627	
01hr 59	+20° 02	0	4.9	M2 III	6-6-6	κ Peg	"	Set 3 rens 4 (15) 8633 8637	
00 18	+35° 25'	0	3.6	M0 III	9-9	β And	"	Set 3 rens 4 (25) 8640 8665	
00hr 8	+55° 45'	0-1	3.9	K3 Ib	9-9	η Per	"	Set 4 rens 4 (25) [illegible]	
00hr 02	+03° 54	1	2.8	M2 III	9-9	α Cet	"	Set 3 rens 4 (15) 8696 8711	
00 20		1			9-9			Set 8 " (25) 8711 8736	
02 15	+47 57	1+	8.5	K	6-6-6		F-Ecl Bin	Set 3 " 9 (120) 8842 8862	
03h 06	+28 32	0+	7.29	G3e	6-6-6		N-SB RA guiding badly	Set 5 " 8 (40) 8865 8905 8909	
[illegible] 08	+16 25	1+	1.1	K5 III	18	α Tau	F-Ca Mv	Set 2 " 4 20	
[illegible]					⊙			25	
02 12					18			30	
02h 08	+33 04	1+	2.9	K3 III	6-12	ι Aur	F-Ca Mv	8987 9012	
[illegible] 13		1+	0.9	M2 Iab	0	α Ori	F-Ca Mv	comb : 20	
[illegible] 01 16					18			25	
[illegible] 1 20					18			30	

PTO

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Date Oct 18/19, 1962 CONTINUED Observer RM E Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
26535	HD 44478	06 16.7	+22 14	I 25	II aOB	.005	14.0	5 47	06 03	2
26536	HD 48329	06 32.8	+25 14	"	"	"	14.0	06 05	06 16	3
	Focus Test									

Dome Temp. .....

Transparency Conditions .....

Focus .....

Dome Temp. 47° F

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
11h 15	+22 28	0+	3.2	M3 III	9-9	μ Gem	9102 9127 9128 9142
11h 07	+25 07	0+	3.2	M3 III	9-9	ε Gem	
					20/15		

2 Plate Holders loaded in dome + 20

6.30 looked at moon - seeing excellent despite dawn - v. small craters visible & great detail

1 Plate broken in loading

Many bright meteors seen (Orionids?)

22h-23½h watched Frank Lyra dbs F-Dq

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Tu 4 1357

Date Fri Oct 19-20/62 Observer Hd – Hs Pa Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
26536F,	Focus Test					.008	+15.8			
26537	HD 216658	22h 49.6m	+61° 36′	I-12½	IIaoB	.012	+17.0	18 45	19 43	4
26538	HD 216711	22h 50.0m	+62° 04′	I-12½	IIaoB	.012	+17.0	20 00	21 05	1
26539	BD +63° 1962	23h 12.8m	+63° 15′	I-12½	IIaoB	.012	+17.0	21 15	22 11	2
26540	BD +63° 1964	23h 13.1m	+63° 34′	I-12½	IIaoB	.012	+17.0	22 22	23 04	3
~~26541~~	~~BD +62° 2210~~	~~23h 14.3m~~	~~+62° 57′~~	~~I-12½~~	~~IIaoB~~	~~.012~~				~~4~~

Dome Temp. 64
Focus 12.63
Dome Temp.

Transparency Conditions

Oct 19 Changed to 12½" Camera 25" Was Focus 15.39 12½ F. Tilt 23.15 T. 20.35

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
Tilt	20.35	OTB			8/6	Set 1 Focus 12.50	
					8/6	" 4 12.60	12.63 would be best
					8/6	" 9 12.70	
E 1 35	+61°54'	2	9.6	B0V	2-2-2	This is S.F. of a double. set 5 OB prog p 22 seno 9	9145 9186
E 0 10	+62 20	2	9.7	B1V	2-2-2	set 5 OB prog. p 22 seno 9	9190 9231
W 30m	+63°32'	2→1	8.2	B1III	2-2-2	set 5 OB prog p 22 seno 9	9233 9273
1h20m W	+63°53'	1	8.5	B0II	2-2-	set 5 OB prog p 22 seno 9	9275 9316
			~~9.1~~	~~B9Ia~~		~~set 5 OB prog p 22 seno 9~~	

Clouds after Midnight.
1P.H. Loaded.

Ml, Sq, L H-
Sat 74 visitors. showed slides.
demonstrated 74".

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Date Sun Oct 21-22/62 **Observer** Hd - Hv RM RM **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I
26541	HD 216658	22 49.6	+61 36	I-12	IIaO B.	012	+12.0°	18 54	20 24	4
26542	H.R. 21671	22 50.0	+62 04	I 12	IIaO B	.012	+11.8	20 37	0008.	1
	Focus Test.			O.T.	B. "	"				1

Dome Temp. +48 F

Focus 12.63

Dome Temp.

Transparency Conditions Good

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
						SF on a point	
24 E0 46	+61 55	1	9.4	B0 V	2-2-2	Set 5 OB Prog p22 nms 9334 9374	
1 0258W	+62°22	1→0	9.2	B.V	2-2-2	Some clouds set 5 OB Prog P.22 nms 9382 9416	
					8-6	" 9	
						3 P.H. Loaded - + ?	

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Dewey
Smith
Brown Jr.

Date 1/10 OCTOBER / 62 **Observer** Hd — Hr **Julian Day**
L RM

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.
26543	HD 216658	22 49.6	-51 36	I-12	IIaO B	012	4.9°	18 23	[illegible]	2
[illegible]	HD 216 111	22 50.0	+62.04	"	"	016		[illegible]	[illegible]	3
26545	HD 20579	03 13.6	+27 "	I 12	"	.008	4.6°	01.05	02 03	4
	Focus Test		O.J.B.							

Dome Temp. 34F

Focus 12.63

Dome Temp.

Transparency Conditions Fair

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
[illegible]	61°55	1-0	9.4	B04	2-2-2	Set 5 DB Prog p 22 Seq 9 9426 9440 9463 9505	
1 16W	62 21	0-1	9.2	B1V	1-2-1	" " " "	
						Light clouds travel N/S	
W0.43	+27 22	0	7.8	A0	3-3-3	Set 5 KA 6-6 Prog Seq 8 9527 9537	
					1-8	" 9	
						2 PH loaded 6 in Box	
						No Flashlight in Dome	
						Telescope was 30' out of collimation now fixed! Rudy	
						Lights on Clocks not working	

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Date Fr/Sat Oct 26/27 '62 **Observer** VB Pg **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I
26546	HD 217833	22 58.4 ~~2301.0~~	+54 42 ~~+5502~~	I12.5	IIaOb	008	02°C	21:45	21:58	1
~~Oct~~ Oct 31/62										
26546 F1		Focus 12.76	72	OTG ITA		008		Exp 1 - 6		4
~~26546 F2~~		" 12.72	68 RM.	OTB ITA		008				1

Dome Temp. 35°F

Focus

Dome Temp.

Transparency Conditions Partly cloudy

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1h 00 W	55°00'	1	645	B9	3+3+3	1+R 8770AB B&B9 pm 74"	
Sp	temp					clouded out	
	7.2°C				Chris. Coutts	1 PH Loaded	
	7.0°C				Pat Hamilton		
						No Flashlight	

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Date Thurs Nov 1-2/62 Observer L-Sq, F-Rm Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H
26547	HD 216523	22 48.5	49 53	I-12½	E11AOB	Set .008	4.9	21 12	21 25	2
26548	BD+62° 2210	23 14.3	62 57	"	"	.012	4.9	21 49	23 31	3
26549	BD+47 809	03 14.9	+47 36	"	"	.008		2357	01 07	4
26550	BD+47 792	03 08.8	+47 42	"	"	.008	4.9	01 21	02 26	1
26551	BD+47 782	03 06.1	+47 52					02 34	02 54	2
26552	BD+47 781	03 06.4	+47 44	"	"	"	4.8	02 57	03 43	3
	Focus Test									
	add equivalent of 6 plates		developed on acufine							

Dome Temp. 37°F

Focus 12.63

Dome Temp. 38°F

Transparency Conditions

Clouds at sunset clearing, some haze

3.30 Clouds moving in slowly from SW

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
01h 02m W	50 12	0	6.42	B9	2-2-3	B8 B9 Prog Sens 6 9561 9563	
02h 42 W	63 16	0+	9.1	B9	2-2-2	OB Prog Sens 9 9564 9603	
00 17 E	47 43	0+	8.3	A0	2-2-2	#507 α Persei Sens 9 9606 9550	fine
01 42 W	47 48	0+	8.1	A0	2-3-3	#285 " 9690	
02 12 W	47 58	0	6.7	G5III	3-3-3	" Sens 7 8 9693 9701 9702	strong
03 00 W	47 55	0	8.5	A	3-3-3	F Cal Bui Sens 4 60 9723	
					11-8	3:40 Clouded Out. Clouds look snow-like Closing up 4 PM's Cracked	

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30 stars in half window

Date Nov 6/7 1962 Observer [illegible] Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H
230-2092	α Lyr	18 35.6	+38 45		4/4/16	28		17:40		
230-2093	β Aqr	21 29.4	-05 46		5/5/33	28		18:07		
230-2094	β Aqr	21 29.4	-05 46		5/5/33	28		18:19	+ sky	
230-2095	44 Cyg	20 29.6	+36 48		6/6/33	28		18:36		
230-2096	44 Cyg	20 29.6	+36 48		6/6/33	28		18:46	+ sky	
230-2097	1 Peg A	21 20.3	+19 38		5/6/33	28		19:05		
230-2098	1 Peg A	21 20.3	+19 38		5/6/33	28		19:15		
230-2099	ε Peg	21 42.2	+09 40		5/5/33	28		19:28		
230-2100	ε Peg	21 42.2	+09 40		5/5/33	28		19:38		
230-2101	9 Peg	21 42.8	+17 09		5/6/33	28		19:49		
230-2102	9 Peg	21 42.8	+17 09		5/6/33	28		20:00		
230-2103	γ Psc	23 15.2	+03 04		5/6/33	28		20:38		
230-2104	γ Psc	23 15.2	+03 04		5/6/33	28		20:48	+ sky	
230-2105	HR 8752	22 58.5	+56 40		6/5/33	28		21:06		
230-2106	HR 8752	22 58.5	+56 40		6/5/33	28		21:16	+ sky	

Dome Temp. 39°F

Focus

Dome Temp.

17:00 V=700
NO CO_2

Transparency Conditions Fine, a few contrails
☽ 7d old
21:25 a few thin Ci patches

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2h02W		8"	0.0	A0V		EXT. ST.	
0.28E		7"	3.0	G0Ib		MK Δ } rather unknown sky = 0	
0.16E			3.0	G0Ib		MK Δ	
0.58W			6.17	F5Iab		MK Δ	
1:08W			6.17	F5Iab		MK Δ	
0.38W			4.09	K1III		MK Δ	
0.48W			4.09	K1III		MK Δ	
0.37W			2.40	K2Ib		MK Δ	
0.47W			2.40	K2Ib		MK Δ	
0.58W			4.40	G5Ib		MK Δ	
1.09W			4.4	G5Ib		MK Δ	
0.17W			3.68	G8III		Δ HV	
0.27W		5"	3.68	G8III		Δ HV 1st x Centaurus not very good	
1.00W		8"	4.99	G0Ia		MK Δ	
1.10W			4.99	G0Ia		MK Δ	

over

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Date Nov 6/7 1967 Cont **Observer** vdB Hr RM **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	H
230 - 2107	η Cas	0 46.4	+5737		6/3/33	28		21:35		
230 - 2108	η Cas	0:46.4	+5737		6/3/33	28		21:45		
230 - 2109	μ Cas	1:05.3	+5446		6/5/33	28		22:02		
230 - 2110	μ Cas	1:05.3	+5446		6/5/33	28		22:12	+sky	
230 - 2111	85 Peg	00 00.1	+2654		6/5/33	28		2232		
230 - 2112	85 Peg	00 00.1	+2656		6/5/33	28		2242		
230 - 2113	54 Psc	00 37.4	+2103		6/5/33	28		2258		
230 - 2114	54 Psc	00 37.4	+2103		6/5/33	28		2308		
230 - 2115	η Tau	03 45.1	+2359		5/4/33	28		2335		
Nov 7										
26552 F1	Hartmann				10300 Fletcher	008	+5.0	Focus	12.00	3
26552 F2	Hartmann Test		Ellis	I-12	10300 Ellis	008	+6.2	Focus	12.60	3
26552 F3					" Reynolds	"		"	12.56	3
26552 F4					" Crompton		+6.2	Focus	12.52	
26552 F5					Paleocande			"	12.48	
26552 F6					Downes			"	12.44	
26552 F7					Smith			"	12.40	3
26552 F8					Bergstrom		+6.5	"	12.36	1

Dome Temp. .....

Focus .....

Dome Temp. .....

Transparency Conditions .....

2140 Ci patches (Sant)
2240 isolated Ci patches
23:30 Many Ci, no longer photometric!

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
017" E			3.45	G0V	ΔMK	} St. M type companion excluded Difficult!	
007 E			3.45	G0V	ΔMK		
015 E		5"	5.20	G5V	ΔHV		
005 E			5.20	G5V	ΔHV		
01:24W		5"	5.75	G2V	ΔHV		
01:34W			5.75	G2V	ΔHV		
01:12W		3"	5.84	K0V	ΔMK		
01:22W			5.84	K0V	ΔMK		
01:15 E			2.86	B7III	—		
					B/6	Clouded out 1:00	
					B/6	~~4~~ 3 P.H. loaded	
					B/6		
					B/6		
					B/6	FOCUS SET 12.66	
					B/6		
					B/6		

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Sun Fl Rm

Date Nov 11-12/62 **Observer** Kd – Hr **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P
26552 Fq	Focus test			I-12	probably 103aO	.008	+6F			1
										1
										1
26553	BD+63° 1962	23 12.8	+63 15	I-12	IIaO R	.012	+5.3	20 15	21 08	2
26554	BD +63° 1964	23 13.1	+63 34	"	"	"	+5.9	21 15	22 15	3
~~26555~~	~~BD220771~~	~~23 21.4~~	~~54 34~~	"	"	"	~~+6.0~~	~~22 33~~	~~0 14~~	~~4~~
26556	BD +51° 723	03 15.3	+51° 18	"	"	"	+6.0	00 37	03 39	1
	Focus test.		O.T.R.	"	"	"				

Dome Temp. Tu 4 1357

Focus 38 12.66.

Dome Temp. ↓

Transparency Conditions clouds earlier

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Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
Focus		12.88			8/6	at 1	
		12.84			8/6	" 5	
		12.80			8/6	" 8	
W 1h 00	63 33	1	8.5	B1 III	2-2-2	at 5 OB proj p22 sens 9 {9753 9823	
W 2h 05	63 52	1	8.5	B0 II	2-2-2	" 5 " " " " 9 {9824 9864	
~~W 3hr 58~~	~~54 54~~	~~2~~	~~8.7~~	~~A5 Ib~~	~~2-2-2~~	~~" 5 " " " {9887 9907~~	
W 3hr 28	51 28	0	9.0	A3	2-2-	" 5 α Per. Cer. P2. Sens 10 9912 9982	
					8-6	at 9.	

Three plates found in black box in spectrog room. Why? What kind? One of these used for thru. prism test. Other left

3 P.H Pooled Ha ob

Plates Mooted.

Clouds after c3001

183

Date Wed Nov 14-15/62 Observer L- Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
26556	HD 212986	22 23.2	55 56	I-12½	EIIAoB	Set .008	+4.1	18 32	18 48	2
26557	" 220771	23 21.4	54 34	"	"	" .012	+4.1	18 58	20 18	3
26558	BD 49° 938	03 21.0	+49 37	"	"	.008	+4.1	20 35	21 11	4
26559	{ " 48° 909	03 18.2	+48 58	"	"	.008	+4.1	22 11	22 45	1
	{ Focus Test				OTB					

Dome Temp. +37°F

Focus 12.66

Dome Temp.

Transparency Conditions Light clouds

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 19E	56 14	0	6.37	B8	3-3-3	B8-B9 Prog Sens 6 {9991 9993	fine
0 13W	54 51	0	8.7	A5 F0	2-2-2	OB Prog " 10 {9994 0070	[illegible]
2 55E	49 48	0-1	8.0	A0	3-3-3	L Persei Prog " 8 {0079 0090	[illegible]
1 19E	49 10	0-1	8.4	A4	3-3-3	" " Jr clouds 8 {0097 0104	[illegible]
					11/8	Clouded out	[illegible]
						3 PHs loaded + 8	

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Date Th Nov 5/16 Observer F - Hr RM Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
26560	HD 216494	[illegible] 48.2	-17 19	I-12	IIaOB	008		18 32	18 42	2
26561	BD +62 2210	23 16.3	+62 57	"	"	008	2.6C	19 06	20 42	3
26562	HD 220771	23 21.4	+54 36	"	"	"	3.0C	20 53	22 33	4
26563	BD +47° 781	03 06.4	+47 43.5	"	"	"	3.0C	22 42	23 28	1
26564	BD +47° 782	03 06.1	+47 52	"	"	"	3.0C	23 32	23 52	2
26565	BD +47 792	0308.8	+47 42	"	"	"	+3.0	23 57	0 47	3
26566	BD +47° 809	03 14.9	+47°36	"	"	"	+3.0	01 01	02 16	4
26567	BD +47° 828	03 22.0	+47 52	"	"	"	+3.0	02 32	03 00	1
	Focus test		O.T.E.							

Observatory closed and tarp off for [illegible] of exposed plates. Dome lights off 10 minutes.

Dome Temp. 34°F

Focus 12.66

Dome Temp.

Transparency Conditions Poor

clouds all around horizon

19 20 Improving

23 30 Thin cloud bands - MOON HAZY

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS			Quality
0 46E	-41 48	0	5.87	B9	5-4	B8-9 Prog	Lens 6	0108 0110	fine
0 53W	-63 16	0+	9.5	B9Ia	3-3-3	OB " P22	Lens 9	0113 0153	fine
2 32W	+54 51	0+	8.7	A5Ib	3-3-3	OB " P22	Sens 9 (40)	0156 0195	fine
0 19E	+47 56	0	8.5	K?	3-3-3	F-EB "	Sen 9 (40)	0199 0239	fine
0 05W	+48 00	0+	6.7	G5III	3-3-3	α Per # 17 S	Sen 7 (8)	0240 0248	strong
0 57W	-47°61	1	8.1	A0	3-3-3	α Per # 28 S	Sens 9 (40)	0250	fine
2hr 21	-47°50	1	8.3	A0	3-3-3	α Per # 507	Sens 9 (40)	0294 0333	strong
3hr 00W	+48°02	0-1	6.8	B9	3-3-3	α Per. # 735	Sens 8 (10)	0337 0347	strong
					11-8	wet 9			OK

Closed at 3:00

3 P.H. + 12 IIaOb.

Gerry: Pumps drained

187

Date Fr Nov 16/17 1962 Observer vdB Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I
26568	HD 16004	2 29.2	+39 15	12"5	IIaOb	008	+4°C	22 19	22:29	1
26569	HD 16440	2 33.2	+68 03	12 5	IIaOb	008	+4°C	22 50	24:05	3

Dome Temp. .....

Focus ....Some....

Dome Temp. .....

Transparency Conditions ....Fair between clouds....

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0.35E	39°26'	0	6.26	B9	5+4	B8/9 wrong star? Plate not numbered on emulsion	
0 55W	68°15'	0-1	8.0	B7III	3+3+	vdB Cep 4. 358-365	
						1 pH+12	

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Date Sun Nov 18/19, 1962 **Observer** Dq – HF, RM, **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H
26570	HD 216658	22h 49.6	+61° 36'	I-12	IIaO	0.016	+1.8°C	18h 52	20h 18	4
26571	HD 230771	23h 24.4	+54° 34'	"	"	"	+1.9°C	23h 08	21h 36	1
26572	BD +47° 781	03h 30.4	+47° 41'	"	"	0.008	+1.9°C	22h 04	23h 08	2
26573	BD +49° 938	03h 21.0	+49° 37'	"	"	"	+1.9°C	23h 38	00 12	3
26574	BD -48° 905	03 17.2	-48 53	"	"	"	1.9°C	00 22	02 18	4
26575	BD -49° 991	03 33.7	-49 11	"	"	"	1.7°C	02 42	05 40	1
	Focus Test		O.T.B.							

The whole night shot
Either spectrograph out of focus or
all plates loaded upside down (from
today was first plate not developed?

26589F	Focus Test Nov 19			I-12	IIaOB	0.008				2

Dome Temp. 23° F

Focus 15.23

Dome Temp.

Transparency Conditions Clea

190

0540 Clouds.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS			Quality
h 02 W	+ 61° 54'	2	[illegible]	[illegible]	3-1-2	OB program.	sens. 9	0376 0416	nuclear plate upside down
h 46 W	+ 54° 23'		8.7	A-Ib	2-1-2	OB program.	sens. 9	0426 0466	same
0h 27 E	+ 47° 50'	1	8.5	[illegible] K	2-2-3	F Eel. Bin.	sens. 9	0472 0512	
0h 22 W	+ 49° 48'	1	8.0	A0	3-3-3	α Per cluster	sens. 9	0548 0588 0594	
1hr 34 W	+ 51° 30'	1	9.0	A0	3-3-?	Per Cluster	sens. 9	0634 0638	
5hr 35 W *	+ 49° 20	0	9.2	A0	3-6	Per Cluster STAR SEEMS TOO FAINT.	sens. 10	0669	
					11-8	set 9.			
* AFWAP.									
						~~3~~ 2 PH loaded.			
						Off = Frank and Ron: This was not recorded — the α Per program took			
	UTB				8/6	set 5	Focus 12.66	1/fd	O.K

Date Mon Nov 19-20/62 **Observer** Hd **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.F.
26570	HD212986	22 23.2	+55 56	I-12	IIaOB	008	+1.8	19 19	19 37	3
26571	HD216057	22 44.6	53 53	"	"	"	+1.8	19 42	20 00	4

Dome Temp. 32F

Focus 12.6

Dome Temp.

Transparency Conditions

Clouds

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
W0 50	56 15	0	6.37	B8	3-3-3	Set 5- B8-B9 pairs mag 6 5676 5678	fair
W0 51	54 10	1	6.03	B8	3-3-3	" " clouds " 6 5679 5680 looks like snow!	fair

193

Date Th Nov 22/22 Observer F - Dm Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
26572	HD 215143	22 38.0	-07 ~~10~~ 29	I-12	IIaOB	008	3.8	18 05	18 17	2
	FOCUS TEST	Dm								

Dome Temp. .....

Focus .....

Dome Temp. .....

Transparency Conditions .....

6.00 Clouds - MOVING FAST

g Time S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
17 2	5h 34 E	-07 12	O	6.28	B9	3-6	B8-B9 Fed > 0703 0707	
						11-8		
							6.25 slight snow	
							solid except in SE.	
							3 PH's loaded	

195

λ - Drive motor oiled

Date 5-/10 Nov 25 1962 **Observer** [illegible] **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
231-2116	β Aqr	21 29.4	-05 46		5/5/33	28		17h 31m	
231-2117	"	"	"		"	"		1742	
231-2118	γ Psc	23 15.2	+03 04		6/4/33	28		1758	
231-2119	"							1809	
231-2120	"	"	"		"	"		1820	
231-2121	R 555	23 27.5	-04 45		7/4/33	28		1833	
231-2122	"	"	"		"	"		1843	2x +5m
231-2123	85 Peg	00 00.1	+26 54		5/5/33	28		1907	
231-2124	"	"	"		"	"		1917	
231-2125	R 1	00 03 4	+08 35		7/5/33	28		1928	
231-2126	"	"	"		"	"		1938	2x +5m
231-2127	R 19	00 37 2	+02 54		7/4/33	28		1958	
231-2128	"	"	"		"	"		2008	2x+5m
231-2129	54 Psc	00 37 4	+21 03		7/3/33	28		2025	
231-2130	"	"	"		"	"		2035	

40°F

Dome Temp. .....

Focus 725V

Dome Temp. ..... CO_2 in. 16:30

Transparency Conditions OK except few Ci up to 10° in S and W 1930 Some ground haze

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Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0.09W		5"	3.0	S0[6	MKΔ		
0.20W		8"	"	"	"		
01:10E		10"	3.68	G8III	ΔHV	Drifted	
00:59E		8"	"	"	"		
00:49E		6"	"	"	"		
00:46E		8"	6.26	K3III	ΔHV		
00:36E		"	"	"	"		
00:50E		8"	5.75	G2V	ΔHV	(not too well centered)	
00:40E		"	"	"	"		
00:28E		"	8.22	K0III,p	ΔHV		
00:18E		"	"	"	"		
00:33E		5"	7.30	S2V	ΔHV		
00:23E		"	"	"	"		
00:05E		5"	5.84	K0V	MKΔ		
00:05W			"	"	"		

over →

Date Sun/Mon Nov 25/26 1962 CST **Observer** vdB HR RM **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	
231-2131	HD1326	00 15.9	+43 47		7/6/33	28		20 52		
231-2132	"	"	"		"			21 00	2x+5m	
231-2133	NGC 205	00 38.1	+41 28		8/6/40	28		21 19	2x+25m	
231-2134	ξ² CET	02 26.0	+08 17		4/6/33	14		22 05		
231-2135	R49	01 52.0	+10 27		6/5/33	28		22 27		
231-2136	"	"	"		6/6/33	28		22 38		
231-2137	R65	02 36.4	+20 40		6/6/33	28		22 52		
231-2138	"	"	"		"			23 02	2x+5m	
231-2139	R73	03 06.1	+26 12		7/5/33	28		23 17		
231-2140	"	"	"		"	"		23 27		
231-2141	δ Tri	02 14.5	+34 03		6/4/33	28		23 43		
231-2142	"	"	"		"	"		23 53		
26573	BD-48° 886	03 12.6	-48° 17'	12.5'	II AGB	.005	+3.5°	12 42	01 08	1
26574	BD+49° 938	03 21.0	+49° 37'	12.5	II AGB	.001	-3.5°	01 22	01 46	3
26575	BD-48° 909	03 18.2	-48° 58'	"	-	"	"	01 55	03 05	4

Dome Temp. .....

Focus 1.2.66

Dome Temp. .....

Transparency Conditions Fine

21:40 thin clouds up to 10° Alt in W

23 30 thin clouds [illegible]

23 50 better

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
044W		5"	8.07	M1	MKD		
052W		"	"		"		
051W + 1:10W					Salomy		
013E		7"	4.27	B9 III	EXT. Stamford		
042W		4"	6.78	F5V	ΔHV		
043W			"		"		
023W		4"	7.32	S1 V	ΔHV		
033W		"	"	"	"		
019W		4"	8.06	SoF7	ΔHV	} cloud damaged	
029W		"	"	"	"		
01 35W		5"	4.87	G0V	ΔHV		
01:45W		"	"	"	"		
W?							
00 54	48° 29	1.5	7.6	A0	3-3-3	lt 5 Per Cluster Page 1 seq 8	0727 0738 fine
02.24	49° 48'	1.5	8.0	A0	3-3	" 5 Per Clust. P 1 seq 8	0739 0749 fine
3 45	49° 09'	1.5	8.4	A4	3-3-3	" 5 Per Cluster P 1 " 8	0751 0761 fine

Date Sun/Mon Nov 25/26 1902 **Observer** H.r. R.M. **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
26576	HD 37171	5 31.5	+10° 58'	12½	II AOB	.008"	+3.6°c	03 16	04 10	1
26577	HD 60298	7 28.7	+25° 07'	"	II AOB	.008"	+3.5°c	04 30	05 32	2
	Focus Test		O.T.B.							
26577T,	Test of vision area			I-12	II AOB	008		Focus	12.56	3
						016				

Dome Temp. + 34° F

Focus 1.2.66

Dome Temp.

Transparency Conditions

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2h.40m	+11° 00′	1	7.59	K5 III	4-4-4	set 5 High Velocity Spectro. Binary secs 8 (20) 0763 0783 0791 0811	fine
2h.04m	+25° 03′	1.5	8.01	G2 V	3-3-3	" ——— " ——— secs 8 (20)	fine
					11-8		focus OK
						2 PH loaded.	
set 0	5 secs inside + 5 outside						
" 2½	10 "	"	10	"		Dr. Hd.	little show in pm.
" 6	15 "	"	15	"		MORE STARS NEEDED FOR	
set 10	5 secs inside		5 outside			2nd HALF. 6h – 10h Hr.	

201

Date Mon Jun 1862 Jun 26/27 **Observer** MR – H+R.M. **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
26578	HD 216658	22h 49.6m	+61° 36′	I-12	baked IIaO	set .016	+4.5° C	17:50	18:51	4
26579	HD 216711	22 50.0	+62 04	"	"	set .012	+4.7	19:05	20:11	1
26580	BD+62° 2210	23 14.3	+62 57	"	"	set .008	+4.8	20:28	22:06	2
26581	HD 3940	00 36.9	+63 45	"	"	"	+4.8	22:13	22:38	3
26582	BD+49° 491	03 33.7	+49 11	"	"	set .012	+4.6	22:55	00:25	4
26583	BD+51 711	03 15.3	+51° 15′	"	"	"	+4.7	00 44	01:58	1
26584	HD 57386 MWC 174	07 15.9	−08° 15′	"	"	.012	+4.7	02:14		2
	"	"	"	"	"	.008	"	02 26	02 40	"
26585	HD 65176 MWC 189	07 52.4	−01° 20′	"	"	"	+4.7°	02:53	03:15	3
26586	HD 34921 MWC 107	05 15.8	+37 35	"	"	"	+4.7°	23:35	04:21	4
26587	HD 44637 MWC 139	06 17.7	+15 09	"	"	"	"	04.34	05:40	1
	Focus test		O.T.B.							

Dome Temp. 40°F

Focus 12.66 unchanged

Dome Temp.

Transparency Conditions

5:15 Thick Fog

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.		REMARKS			Quality
0:05 W	+61° 55′	1	9.61	B0V	2-1-2	Set 5	this star in South following 1-the pair repeat: South following; see program	Set 9	873, 917	
1:24 W	+62 23	1	9.70	B1V	2-2-2	Set 5				
2:54 W	+63 16	1	9.5:	B9 Ia	3-3-3	Set 5	OB Prog.	Set 9	923, 966	
...	+64 04	1	7.5	A1 Ia	3-3-3	Set 5		set 9	978, 1021	
0:65 W	+49 20	2-3	9.2"	A0	2-2-2	set 5		set 9	029, 070	
3.45 W	+51° 30′	2-3	9.0	A3	2-2-2	set 5	α Per #1344 v. faint? α Per Check P.2	set 9	1081, 1121, 1126, 1166, 1175	
Exp. Transit		cover + slit.			2.			seq 5	1177	
0 32 E	−8° 23′	2-3	8.1	B5me	3-3-3	set 9	Be Prog	seq 5	1188, 1190	
0 33 E	−1° 31′	2-3	8.1	B5me	3-3-3	set 5	Be Prog	seq 8	1203, 1204	
3h 08 W	+37° 38′	1	7.4	B0me	3-3	set 5	Be Prog	seq 7	1208, 1209	
3hr 27 W	+15° 05′	1	7.7	B3e	3-6	set 5	Be Prog	seq 8	1211	
					11-8		arc is too far east			

3 PH loaded

2 in Box in between

203

Date Tue.-Wed. Nov. 27/28, 1962 **Observer** D.q. - R.M.+H. **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H
26588	HD 216658	22h 49.6	+61° 36'	I-12	baked IaO	set .016	+6.[illegible]°C	18:05	19:21	2
26589	BD+67°215	2h 27.2	+67° 55'	"	"	set .015	+5.9°C	19:34	19.54	[illegible]
26590	BD+67°217	2h 29.8	+67° 38'	"	"	"	+5.9°C	20.10	20.32	4
26591	BD+67°221	2h 33.2	+65° 03'	"	"	"	+5.8°C	20.40	21:12	1
26592	BD+62°2210	23h 14.3	+62° 57'	"	"	"	+5.9°C	21:30	23:10	2
26593	HD 37171	5h 31.5	+10° 58'	"	"	"	+5.9°C	23:24	23:46	3
26594	BD+51°723	3h 15.3	+51° 18'	"	"	"	+6.0°C	[illegible]	03 04	4
26595	HD 31293 MWC 93	04 49.4	+30 24	"	"	"	+6.0°C	03:22	03:52	
26596	HD 44637 MWC 139	06 ~~21.1~~ 17.7	+15 ~~08~~ 09	"	"	"	+6.0°C	04:17	06:19	
	Focus test									

Dome Temp. 44°F

Focus 12.6 unchanged

Dome Temp.

Transparency Conditions some haze

Dew on scuttle

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS			Quality
0 40W	+61° 55′	0	9.61	B0V	2-1-2	set 5	OB program	sens. 9 1215 1255	
2 28E	+68° 10′	"	6.77	F4II	3-3-3	set 5	vdB high lum. star	sens. 8 1262 1272	strong
1 52E	+67° 52′	0-1	7.7	F2II	3-3-3	set 5	near " Cepheid SU Cas	sens. 8 1275 1285	fine
1 16E	+68° 17′	1	8.0	B7III	3-3-3	set 5	"	sens. 8 1288 1298	fine
4h 05W	+63° 15′	1	9.5	B9Ia	3-3-3	set 5	OB	sens 9 1299 1339	
1h 40E	+11° 01′	1	7.59	K5II	4-4-4	set 5	HV Spectr. Bin. vdB	sens. 7 1345 1351	fine
3h 55W	+51° 31′	1	9.0	A3	3-3-3	set 5	Pec.	sens. 7 1356	strong
5h 10W	+30° 27′	1	7.5	A0ep	3-3-3	set 5	Be Prog.	sens 8 1403 1413 (10)	fine
4h 10W	+15° 05′	1	7.7	B3e	3-	set 5	Be Prog	sens. 8 1415 1419 10	fine
					11-8	set 7			

2 PH loaded IIaOb

No More IIaOb PLATES.

205

Date Wed Nov 28-29/62 Observer L- F Rm Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I
26597	BD +63 1962	23 12.8	63 15	I-12½	Unbaked IIAO	Set .012	+7.0	18 41	19 17	1
26598	BD +63 1964	23 13.1	63 ~~53~~ 34	"	"	"	+7.0	19 22	20 04	2
26599	HD 7546	01 10.5	47 33	"	"	008	+6.9	20 15	20 22	1
26600	BD 49 991	03 33.7	49 11	"	Baked IIAO	"	+6.9	21 15	22 51	3
26601	" 49 900	03 11.7	49 26	"	Unbaked IIAO	"	+6.8	23 02	23 24	2
26602	" 48 886	03 12.6	48 17	"	"	"	+6.8	23 35	23 55	3
26603	" 47 781	03 06.4	47 43.5	"	"	"	+7.0°	00 09	01 01	1
26604	BD +48°943	03 24.8	+48 25	"	"	"	+7.0°	01 14	01 20	2
26605a	BD +29 1907	09 24.6	+29 33	"	IIaO B	"	+6.8	01 57	04 52	4
26605b	BD +45 1859	10 38.3	+45 12	"	"	"	+6.8°	04 08	05 56	4
26606	HD 71906 HR 3348	8 24.8	-37 36	"	IIaO	"	+6.8°	06 20	06 30	3
	Focus Test.		O.T.B.							
					04 15	F	[illegible]	[illegible]	at home	

Dome Temp. 42°F
Focus 12.66
Dome Temp. 38°F

Transparency Conditions Some Haze

Waited for dew to clear from secondary

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS			Quality
0 15 W	63 32	0-1	8.2	B1 III	2-2-2	OB prog.	Exs 8	1425 1437	
1 02 W	63 52	0-1	8.5	B0 II	2-2-2	" "	" 8	1439 1451	
0 38 E	47 50	0-1	6.45	B8	3-3-3	B8-B9 prog.	" 6	1459 1461	
0 32 E	49 22	1-2	9.2	A0	3-3-3	α Persei	" 9	1467 1507	fine
0 28 W	49 37	2	7.8	A0	3-3-3	" "	" 8	1510 1521	fine
0 53 W	48 28	2	7.6	A0	3-3-3	" "	" 8	1523 1536	fine
2 05 W	47 55	2+	8.5	K:	3-3-3	F-EB	" 9	1540 1593	
2 06 W	+48° 34'	2	6.5	B9	3-3-	Set 5 α Persei Clust. Pags 1	" 7	1597 1602	
1 20 E	+29 "	2	9.9	F5	3-3-3	Set 3 HAFS	" 10	16[illegible] 1675	
30 E	+44 50	2	9.6	F4	3-3-3	Set 7 "	" 10	1756 1758	
2 17 W	+37 20	2	6.04	B9	3-3-3	Set 5 B8 - B9 Prog	" 6		
					11-8				

1 PH loaded.
11 Plates in dark room.
Seem short of stars for II rd half
2660 5 : 6606 m rare plate because of II o B plate left

6" Dome found open at 02 hrs.

207

Date Thur Nov 29-30/62 **Observer** Hd **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I
26607	BD +63° 1962	23 12.5	+63 15	I-12	II-O unhardened	012	9.0	17 17	18 27	4
	focus	test	OTP							
26608	BD+63 1964	23 13.1	+63 34	I-12	"	012	+9.1	18 35	19 00	1
26609	HD 216711	22 50.5	+62 04	"	"	012	+9.0	19 22	20 08	2
26610	BD 61 2550	23 47.4	+61 34	"	"	012	+9.0	20 14	21 02	3
26611	BD 61 2559	23 48.7	+61 52	"	"	012	+9.1	21 07	22 53	4

Dome Temp. +50 F

Focus 12.66

Dome Temp.

Transparency Conditions fair

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
E 5h 0	63 31	2	8.2	B1 III	2-4	set 5 OB page p22 } Developed Neg 8 1762 1774	fair
			—	—	8/6	set 8	ok
W 0h 02	63 51	3	8.5	B0 II	2-2-2	set 5 " " " Neg 8 1777 1787	fair
W 1h 33	62 02	3	9.2	B1 V	2-2-2	" 5 " " " " 8 1788 1795	fair
W 1h 30	61 57	3	7.5	B0 IV	2-2-2	" 5 " " p24 " 9 1799 1808	fair
W 3h 20	62 09		—	G9 V	2-4	" 5 " " p24 " 9 1800 1812	bad
						Star about gone for longer exposures	
						3 plt loaded with unbaked II a O.	
						04:40 F	

209

Date Fri Nov 30 - Dec 1/62 Observer Pa Hd - I Fl Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.
26612	BD +63° 1964	23 13.1	63 34	I-12	IIaO unbathed	012	10.2	1736	1804	1
26613	BD+61° 2159	23 05.7	61 52	"	"	016		1809	1920	2
26614	Focus Test									
232-2143	HD1326	00 15.9	+43 47		7/4/33	28		1940		
232-2144	"	"	"		"	"		1950	2x+Sky	
232-2145	R19	00h 37m2	+02° 54'		7/3/33	28		2010		
232-2146	"	"	"		"			2020	2x+Sky	
232-2147	R1	00h 03.4	+08° 35'		7/4/33	28		2039		
232-2148	"	"	"		"			2049	2x+Sky	
232-2149	NGC205	00h 38.1	+41° 28'		8/4/40	28		2112		
26615	HD16066	02h 29m8	+67° 38'	I-12	IIaOb	008	10°C	2220	2240	2
26616 a	HD15784	02h 27m2	+67° 55	I-12	IIaOb	008		2245	2254	
b	HD16440	02h 33m2	+68° 03'	I-12	IIaOb	008		2303	2327	
26617	+46° 748	03h 18m6	+46° 42'	I-12	IIaOb	008	10°C	2334	00h 43	1
26618	BD+49° 958	03 21.7	+49 33	I-12	IIaO	008	10.1°C	1h 03	2h 43	2

Dome Temp. +50 F 900V Transparency Conditions Smoa! probably not pe 210

Focus 12.66 CO_2 in 17:30 21:30 sky becoming very poor

Dome Temp. 00h - conditions perfect

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
23h 50m	63 52	2	8.5	B0II	2-2-2	Set 5 OB pg p 22 number 66612 Zens 8 B00 1910	
0h 11m	62° 08'		—	O7V	1-2-1	" 5 " p 24 ~~number 66612~~ Zens 9 1912 40Cam-TD	
							OK
010 E		<5"	8.07	M1E		MKB	
0 00		"	"		"	"	
0000		<5"	7.30	G2V		AHV	
0010		8"	"		"	" Thrown out of focus, images Too Small	!
0101		5"	8.22	K0IIIp		AHV	
0102		"	"			"	
						galaxy thin Ci, do not use Swarbrick, [illegible]	
028W	+67 52	2	7.7	F2II	2+2+2	vdB SuCas prog. 63-85	
044W	+68 10	2	6.77	F4II	3+3	vdB SuCas prog. 86-91 pos 3	
0 6 5W	+68 15	2	8.00	B7III	3+3	vdB SuCas prog. 94-101 pos 8	
01 42W	+46 52	2	8.9	A3	2+2+2	LPe #665 2002 - 2042	
03 37W	+49 45	1	9.1	F0	2+2+2	LPe #958 Set 5 Zens 9 2050 2094	

cont'd next page

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cont'd

Date Fri/Sat Nov 30/Dec 1/62 Observer I/FL Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	H
26619 a	HD 82011	$9^h 24^m.2$	+30 28	I-12	IIaO	008	10°C	$03^h 15$	$3^h 44$	3
26619 b	BD +45 1859	10 38.3	+45 12	I-12	IIaO	008	10°C	$04^h 04$	5 05	
	Focus test	0173								

Dome Temp. +44°F

Focus

Dome Temp.

Transparency Conditions fine
- low lying fog

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1h20W	+30 13	1	10.09	B9	2+4	KAFS p.4; Hms 567 Lens 10; Set 5 2103 2116	counting too slowly
1h13E	+44 53	1	9.59	F4	2+	KAFS p.3 Hms 317 Lens 10, Set 7 2119 2180 — something wrong with periscope optics; Set 2	
					8/6		

2 PH's loaded with IIaO Unbaked
+1 full box IIaOB

213

Date Sat/Sun Dec 1/2 1962 **Observer** [illegible] **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
233-2150	4 Lac	22h 18m	-11°00'		7/4/33	28		1736	1x	
233-2151	4 Lac	22h 18m	-11°00'		7/4/33	28		1746	2x + sky	
233-2152	4 I	22 18h	-11°00'		7/3/33	28		1816	2x + sky	
233-2153	RS51	23 15 2	-14 07		8/3/33	28		1850	2x	
233-2154	"	"	"		"	"		1900	2x + sky	
233-2155	54 Psc	00 37.4	+21 03		6/6/33	28		1920	2x	
233-2156	"	" "	"		"	"		1930	2x	
233-2157	η Psc	01 29 4	+15 09		6/4/33	28		1955	2x	
233-2158	"	"	"		"	"		2005	2x	
233-2159	δ Tri	02 14 5	+34 03		6/4/33	28		2018	2x	
233-2160	"	"	"		"	"		2028	2x	
233-2161	NGC 205	00 40.5	+40 39		8/6/40	28		2048	2x + sky	
233-2162	2 And	01 34 5	+41 12		6/4/33	28		21 31		
233-2163	"	"	"		"	"		21 41		
233-2164	HR 483	01 39 4	+42 26		6/6/33	28		2204		
233-2165	"	"	"		"					

Dome Temp. 47°F V 700
Focus ..... CO_2 in 15:30
Dome Temp. .....

Transparency Conditions Some Smoky, but Looks OK 214
20:40 4th mon sets. 20:20 thin clouds hi in west
22:00 All Clear

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
020E		5"	6	G2?		IV III II ⊖ · I Drifted out	
010E		5"	6	G2?		Near edge of T and of 2d X	
020W		5"	6	G2?		Small ϕ used	
005W		<5"	8.17	SdF8		ΔHV	
015W		"	"	"		"	
046W		<5"	5.84	K0V		ΔMK	
036W		"	"	"		"	
105E		<5"	3.61	G8III		ΔMV	
055E		"	"	"		"	
01:25E		5"	4.87	G0V		ΔHV	
01:15E		"	"	"		" Some cloud danger	
040W+058W				G		galaxy Clouds (dawn to HV)	
030W		5"	4	F8V		MKΔ Some cloud danger	
040W		"	"	"		"	
058W		5"	4.94	G2V		MKΔ	
108W		"	"	"		"	

over →

215

Cont.

Date Sat/Sun Dec 1/2 1962 **Observer** vdB – L **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H
233-2166	ξ^2 Cet	02 26.0	+08 17		6/4/33	18		22 37		
233-2167	ξ^2 Cet	"	"		"	"		22 53		
233-2168	R73	03 06.1	+26 12		8/3/33	28		23 14		
233-2169	"	"	"		"	"		23 24	2×15 sky	
233-2170	R83	03 37.8	+26 52		8/4/33	28		23 41		
233-2171	"	"	"					23 51	2×15 sky	
26620	HD 37171	05 31.5	10 58	I-12	unbaked II AO	.008	+8.6	00 37	01 21	4
26621	" 37736	05 35.7	44 48	"	II AO B	"	+8.6	01 42	02 26	1
Dec 3										
26621 F				I-12		103aO		Focus 12.48		2

Dome Temp. .....

Focus .....

Dome Temp. .....

Transparency Conditions ... Fine

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0.45W		5"	4.27	B9III	EXT.	Stunned	
1.01W		"	"	"	"	"	
0.40W		7"	8.06	S8F7		Δ HV	
0.50W			"	"		"	
0.35W		7"	8.34	S8III		Δ HV	
0.45W			"	"		"	
21 4 0.13W	10 59	0	7.59	K5III	4-4-4	4i Vel Sp Bin Sum 7 {2144, 2152}	
26 1 1.13W	44 48	0	7.73	A2	3-3-3	RA 6x6 " " {2153, 2157}	

Why were loading plates Fri.? Found loaded backwards!

Fog & Haze

3 PHs loaded + 8 BIIA0

217

Date Tue Wed Dec 11/12 1962 **Observer** MR – H & RM (RM) **Julian Day** 2438010.
⊙259 28 14.8 ☾58.8

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H
26622	4 DE 235807	22h 17m.4	+55° 03′	I-12½	IIa-O	.016	-4.4°	17:34	21:51	3

Dome Temp. 20°F

Focus 12.66

Dome Temp.

Transparency Conditions

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
4:36 W	+55°20'	0	9.77	B0.5IV	2-1-2	Set 5 Field ac OB p14 10 {2205 2262	
						clds Please fix flashlight	
						Clouds after Midnight	
						Closed at 02.15	
						2B P.H. Loaded.	

219

Date Dec 14/15 Fr/sat 1962 **Observer** vdB, Pa **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H
234-2172	4 III	2234	-1017		6/5/33	28		1740	2+4 Sky	
234-2173	85 Peg	00001	+2654		6/5/33	28		1800		
234-2174	"	"	"		"	"		1840		

Dome Temp. 15°F

Focus

Dome Temp.

V 700

CO_2 in 17:30

Transparency Conditions Ci in W, Some in zenith

220

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0.24W		8"	6	52		ΔO Some Ci, (twilight contamination)	
0:38E		8"	575	52V		ΔHV through thin Ci	
0:28E		5"	"	"		" " "	

Flashlight not working

221

Date DEC. 19-20/62 (Wed-Thur) Observer — HD HS RM Julian Day 2438018. 0267 36 30.9 3666.0

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H
26623	HD 36375	0526.2	+17 28	I-12½	IIaOb	.012	+1.4°	0100	04:54	4
26624	" 87271	09 58.8	-12 07	"	"	"	+0.3	0427	0519	1
26625	" 79190	09 07.5	-56 02	"	"	"	-0.3	05:32	0620	2
26626	" 82661	0929.6	-57 25	"	"	"	-0.3	6.32	0700	3
*	Focus T est		O.T.B.							

Plate Broke while being unloaded. wrapped in paper in black box.

Dome Temp. .....

Focus 12.66

Dome Temp. +7°F

Transparency Conditions .....

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
4 hr 3 w	+17 30	000	7.9	A0	2-2-2	Set 5 K.A. 6x6 #9 2280 2320 (40)	[illegible]
0056 W	+11°48'	500	7.04	A0	2-2-2	" 5 " 8x8 #8 2328 2339 "	fair
02 47 W	55 45	"	7.46	A0	2-2-2	" 5 " " #8 2341 2351 "	fair
03 04 W	+57° 12'	"	6.94	A2	2-2-2	" 5 " " " 8 2353 2363 "	fair
					8-6		OK

1 PH Loaded.

223

Thur/Fri

Date Dec 20-21 / 62 Observer Hd - (Vaz) Cw Julian Day 2438019.

⊙ 268 37 36.9 3666.7

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H
26627	HD 204428	21 23.4 13.4	+52 28	I-12	IIaO B	.008	-8.1	17 25	17 41	4
235-2175	η PSC	01 29.4	+13 09		5/6/33	28		17 55		
235-2176	"	"	"		"	"		18 05		
26628	HD 1279	00 11.9	+47 24	I-12	IaO B	.008		18 31	18:41	1
26629	HD 14302	02 13.6	+55 52	I-12	IaO B	.016	-8.2	19:17	20:07	2
26630	NGC 1502 Z6	03 59.3	+62 04	I-12	IaO B	.016	-8.8	21:05	22:45	3
26631	BD +48 903	03 16.6	+48° 10	I-12	IaO B	.012		23:00	23:07	3
	Focus test									

? both up on same plate ✓

Dome Temp. 10° E
Focus 12.66
Dome Temp. 6° E

Transparency Conditions very line, Poland

22h 40m CLOUDS!

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
W 1:55	+52 42		5.9	B9	B-3-3	Set 5 B8-B9 Lens 6 2366 2368	fine
						Set 9 FOCUS TEST 6/4	
1:48W		10"	3.61	SpII		DMK	OK
1:38W			"	"		" Brown record ink frozen!	
0:06W	+47 43	0	5.77	B9	3-3-3	Set 5 B8-B9 Lens 6 2369 2371	fine
0 03E	+56 09	0	8.5	B, II-III	2-1-2	Set 5 OB program p26 Lens 9 (4) 2373 2413	
0 21W	+62 13	1	9.93	B3	2-1-2	NF OB very close pair in 74" Set 5 OB program p26 Lens 9 (4) 2418 2456	cloudy
01 28W	+48 26	0	6.8	B9	2-4	Set 2 α Persei cluster P1 Lens 7 2457 2458	fine
					4/4	Set 9	OK

4 PH loaded
Box of 2 plates in spotting

225 Wed/Thur

Date Dec 26/27 1962 **Observer** vdB **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H
236-2177	U And	0134.5	+4112		5/6/33	28		1745		
236-2178	"	"	"		"	"		1755		
236-2179	HR 483	01394	+4226		5/6/33	28		1815		
236-2180	"	"	"		"	"		1825		
236-2181	NGC 205	0038	+4128		8/6/40	28		1856	3x +1 sky	
236-2182	HD 1326	0015 9	+4347		8/4/33	28		1950	2x +1 sky	
236-2183	ξ^2 Cet	02260	+0817		5/6/33	14		2020		
236-2184	R 65	02364	+3040		7/4/33	28		2043		
236-2185	R 65	"	"		"	"		2053	+1 sky	
236-2186	R 73	03061	+2612		7/5/33	28		2107		
236-2187	"	"	"		"	"		2117	+1 sky	
236-2188	R 83	03378	+2652		7/5/33	28		2135		
236-2189	R 83	"	"		7/6/33	"		2145		
236-2190	Hyades #63	0423.6	+1642		7/5/33	28		2205		
2191	"	"	"		"	"		2215	+1 sky	
								use same sky for 2192/3		

Dome Temp. ..... V = 700V

Focus ..... CO_2 in 17.00

Dome Temp. .....

Transparency Conditions ..Poleward, a few Cumuli at Sunset
Fine later

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2:00 W:		10"	4	F8V		MKD	
1:50 W:		"	"	"		"	
1:17 W		8"	4.94	G2V		MKD	
1:07 W			4.94	G2V		"	
0:44 W				G		Gal	
1:48 W			8.07	M1V		MKD	
0.04 W			4.27	B9III		ext st.	
0.11 W			7.32	G1V		ΔHV	
0.21 W			"	"		"	
0.10 W			8.06	G1F7		ΔHV	
0.20 W			"	"			
0.05 W			8.34	G8III		ΔHV	
0.15 W			"	"		"	
0.10 E		5"	8.06	G2V		ΔMK	
0.00		"	"	"		"	

227

Date Dec 26/27 1962 cont. Observer B-H Julian Day 2438025.
274 44 26.4 3669.8

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I
236-2192	Hyades #64	04 23.8	+16 38		7/5/33	28		22 30		
236-2193	"	"	"		"	"		2240		
236-2194	Hyades #73	04 26.0	+17 10		7/5/33	28		2255		
236-2195	"	"	"		"	"		2305		
236-2196	M79	05 22.8	-24 33		8/5/40	28		2335	2345	
26632	HD 36043	05 23.8	31 44	I-12½	II.06	.012	-9.5	0037	0245	1
26633	" 82569	09 27.7	61 20	"	"	"	-9.6	0308	0402	2
26634	" 82719	09 28.6	63 14	"	"	"	-9.6	0412	0436	3
	Mag. 7.5		578							

Dome Temp. .....

Focus ..... 12.66?

Dome Temp. .....

Transparency Conditions ..... Fine

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 12W		5"	8.12	S2V		MKΔ	
0 22W		10"	"	"		MKΔ slightly out of focus	
0 34W		10"	7.85	S2V		MKΔ	
0 44W				"		"	
0 22W	+040		8.34	V		⊕	
5 32 4W	3145	00	7.7	A0	2-2-2	Set 5 KA 6x6 #8 2471 2481	
5 0 37W	6107	00	7.45	F0	2-4	" " 9x9 #8 2482 2492	
5 10 8W	6254	0	7.56	K0	2-2-2	" " " #8 2495 2508	
					9/6	9 CLOUDS 04'50	
						1 Pt. +8	

229

Date Sun. Dec. 30-31/62 Observer L- Julian Day 2438029.
⊙ 278 49 06.2 3670.0

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P
26635	BD+61° 2509	23 39.0	61 36	I-R½	IIAoB	set .016	"	18 10	20 00	4
26636	BD+45° 903	03 16.6	+45 16	I-R½	IIAoB	set .008	-13.	20 30	20 50	1
	" "			" "	"		"	20 51	21 19	1
26637	HR 1237	03 54.9	17 00	"	"	.008	-13.1	21 49	22 20	3
26638	" 1600	04 53.4	14 24	"	"	"	-13.2	22 45	23 11	2

Dome Temp. -7°F

Focus

Dome Temp.

Transparency Conditions

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2 35W	61 21	0	8.7	B5/6	2-1	Lt 5 OB prog. 8 {2523 2529	ok
0 12E	+48 28	0	6.8	B9	3-3-3	Lt 5 α-Persei cluster 7 2532 2536	
0 18W	+43 28	0	6.8	B9	3-3-3	Lt 2 α-Persei cluster 7 2537 2541	
0 51W	17 10	0	6.28	B9	3-3-3	B8-B9 7 2544 2546	
0 35W	14 28	0	5.93	B8	3-3-3	" " 7 2550 2554	

231

Date Tues-Wed Jan 1-2 /63 **Observer** L- (AM, Hr) **Julian Day** 2439031.
⊙ 280 52 16.2 3669.5

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
26639	HD. 16219	02 31.1	39 27	I-12½	E II A o B	set .008	-10.2	1820	1828	4
26640	" 23324	03 39.2	24 32	"	"	"	-10.1	1949	1953	1
26641	" 35633	05 21.1	34 27	"	"	"	-10.1	2104	2148	2
26642	" 34948	05 16.0	12 34	"	"	"	-10.0	22 32	23 06	3

Dome Temp. +17°F

Transparency Conditions good

Focus

Too windy to work up North

Dome Temp. +16°F

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1 19 E	39 44	0-1	6.35	B8	3-3-3	B8 B9 7{2560 2564	
1 22 E	24 45	0-1	5.53	B8	5-4	" " 7{2590 2594	
1 09 E	34 29	0-1	8.4	B0.5IV	3-3-3	OB prog 8{2588 2598	
0 15 W	12 37	0-1	7.9	A3	3-3-3	KA 6x6 8{2603 2613	

CLOUDS AFTER MIDNIGHT

CLOSED AT 0130

I.E.H. LOADED

233

Date Jan 13/14 1963 [illegible] **Observer** vdV **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
237-2197	η Psc	01 29.4	+15 09		5/4/33	28		1755		
237-2198	"	"	"		"	"		1805		
237-2199	μ Cas	01 05.3	+54 46		5/5/32	28		1820		
237-2200	"							1830		
237-2201	ω And	01 34.5	+44 12		5/4/33	28		1850		
237-2202	"	"	"		"	"		1900		
237-2203	"		"			"		[illegible]		
237-2204	R 45	01 52.0	+10 27		6/4/33	28		1935		
237-2205	"	"	"		6/4/33	"		1945	[illegible]	
237-2206	Q Per	02 41.5	+48 04		5/4/33	28		2002		
237-2207	"	"	"		"	"		2017		
237-2208	16 Per	02 48.0	+38 09		5/4/33	28		2030		
237-2209	"	"	"		"	"		2048		
237-2210	L Per	03 08.1	+48 35		5/4/33	28		2055		
237-2211	"	"	"		"	"		2105		

Dome Temp. ..... 900V w/o CO_2

Focus .....

Dome Temp. .....

Transparency Conditions ..... OK, clouds low NW
Fine later

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
015E		8"	361	S8III		MKΔ Twilight dawn	
005		8"	"	"		" OK	
035		8"	520	G5V		ΔHV	
045		"	"	"		ΔHV	
035		8"	–	F8V		MKΔ large image motion! Subject	
045				"		"	
100				"		"	
105		5"	6.28	F5V		ΔHV	
115		"	"	"		"	
040		5"	42	F7V		MKΔ	
050		"	"	"		"	
105		8"	4.0	F7III		MKΔ	
115		"	"	"			
110		5"	4.04	G0V		ΔHV	
120			"	"		"	
						Tel	

235

Date [illegible] **Observer** [illegible] **Julian Day** [illegible]

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
237-2212	36 Per	03297	+4355		5/5/33	28		2120		
237-2213	"	"	"		"	"		2130		
237-2214	HR1329	4171	+6505		5/5/33	28		2140		
237-2215	"	"	"		"	"		2150		
237-2216	RW1	4499	+6547		6/5/33	28		2210		
237-2217	"	"	"		"	"		2270	[illegible]	

Dome Temp. .....

Focus .....

Dome Temp. .....

Transparency Conditions ..... Fine .....

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1:10		8"	5-4	F4III		ΔMK	
1:30		"	"	"			
0:45		10"	5-4	G8III		ΔMK	
0:55		"	"	"		"	
0:45		8	6.97	G,E-A		ΔBV	
0:55		"	"	"		"	
	23h Clouds [illegible]						
	23:30 almost completely [illegible] - [illegible] clouds [illegible]						
	Thin Cloud w/clear streaks after Midnight						
	Shut up at 0230						

237

Date Jan Morning ~~12/1~~ 14/15 1963 **Observer** MRKM, Dm/Hrs **Julian Day** 2438047.5

⊙ 297 06 56.7 3666.1

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I
26643	HD 14302	02h 13.6m	+55° 52'	12½	IIaO-Bl	Set .008	-9.4°	18:10	19:50	4
26644	NGC 1502-26	03h 59.1	-62.04	12½	"	Set .016	-9.3°	20:29	21:45	1
26645	NGC 1502 27	03h 58.6	62°03	12½		.016	-9.3°	22:08	[illegible]	
26646	HD [illegible]	10h 01.2	13°17	12½	"	.008	-9.6°	02.10	02.33	
26647	" 90512	10h 21.9	11°49	12½	"	.008	-9.8°	0307	0349	1
	Three 1 st		073			"				

Dome Temp. 14°F

Focus 12.66 read

Dome Temp. +3° F

Transparency Conditions

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0:32W	56°10	2	8.5	B1-II III	3-3-3	Sets OB p 26 10 {3068, 3040}	[illegible]
1[illegible] W.	62°14	2	9.93	B3	3-3-3	Sets " 10 {2772, 2842}	fine
0408 W	62°12	1	10.04	B4	2-1-2	Sets " 10 {2890, 2939}	fine
[illegible]36E	+1257	1	7.51	A5	3-3-3	" 5 KA 8 X 3 8 {2742, 2752}	[illegible]
0445 W	+1126	1	7.30	G5	3-3-3	" 5 " 9 {2761, 2971}	fine
					10/2	" 9	OK
						3 P.M. finished.	
						Thin cloud + haze all night. closed at 0445.	

239

Date ~~Jan 14/15~~ 15/16 July 1963 Observer Day (vdB) L – RM Julian Day 2438045.

⊙ 295 08 02.8 3665.9

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.
238-2218	β^2 CET	02.260	+08 17		5/6/33	20		17 55		
238-2219	R 49	01 52.0	+10 27		"	28		18 25		
238-2220	"	"	"		"	28		18 35	2+ + sky	
238-2221	NGC 205	00 38.1	+41 28		8/6/40	28		19 00	2+ + sky	
238-2222	X CET	03 17.3	+03 13		6/5/33	28		19 40		
238-2223	"	"	"		"	28		19 50		
238-2224	R 84	03 38.4	-03 20		6/4/33	28		20 05		
238-2225	"	"	"		"	28		20 15	2+ + sky	
238-2226	Hyades #63	04h 23.6	+16° 42'		7/5/33	28		20 40		
238-2227	" "	"	"		"	"		20 50	2+ + sky	
238-2228	Hyades #64	04 23.8	+16 38		7/5/33	28		21 05		
238-2229	"	"	"		"	"		21 15		
238-2230	Hyades #73	04 26.0	+17 10		7/5/33	28		21 30		
238-2231	"	"	"		"	"		21 40	2+ + sky	
26648	HD 35633	05 24.1	+34° 27	I-13	IIa-O	·016	-15.1°	22h 20	22h 48	2
26649	BD +47° 781	03 66.4	+47° 43.5	"	"	·008	"	23h 02	00 54	3

Dome Temp. +5°F
Focus 12.66 read
Dome Temp.

CO_2 in 16h00
700V

Transparency Conditions Fine!

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS			Quality
1h00E		10"	4.77	B9III		Ext. ST.			
0 00		8"	6.78	F5V		ΔHV			
0 10		6"	"	"		"			
1 50W			11	G0?		Sat.			
10E			4.82	G5V		ΔMK			
:00			"	"					
0 05E		8"	6.68	F9V		ΔHV			
0 05W		"	"	"		"			
0 20E			8.06	G2V		ΔMK			
0:10E			"	"		"			
0 05W			8.12	G2V		ΔMK			
0:15W			"	"		"			
0:30W			7.85	G2V		ΔMK			
0 40W			"	"		"			
0 50W	+34°29	0-1	8.4	B0.5IV	2-1-2	OB program p. 26 set 5	star 8	10 secs	
5 08W	[illegible]	0-1	9.5	[illegible]	1-5-3	set 5 F eclipsing binary	star 9	2997 / 3037	

241

Date Jan ~~14-15~~ 15-16 Continued Observer Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.F
26650	HD 82069	9 24.6	-30 [illegible]	I 12	II aob	.008	-15.5°	01 02	02 56	4
26651	BD +45 1859	15 38.3	45 12	"	"	"	"	03 05	05:23	1
26652	HD 126246	14 19.3	+11° 42'	"	"	"	-15.5°	05 41	05 55	2
26653	HD 151043	16 39.5	+71 57	"			"	06 30	06 39	3
	Focus test									

Dome Temp. .....

Focus .....

Dome Temp. ..-3°F..

Transparency Conditions .....

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 52 W	-29° 43'	1	9.45	Fg	3-3-3	Set 5 KA FS Ring Page 4 Set 9 {3040 3080	fine
3 7 W	-44° 51	1	9.65	F4	3-3-3	Set 5 KA FS Ring Page 3 Set 9 {3082 3122	dark
11 2 E	+11° 23'	1	7.12	F5	3-	Set 5 KA 8×8 Ring. Set 7 {3127 3131	fine
33 E	-77° 46'	1	7.42	F8	3-3-3	Set 5 KA FS Set 7 {3134 3138	fine
					11-8	Set 5	ok

1 Pl. loaded

243

Date JAN Wed + Thur ~~15/16~~ 16/17 1963 **Observer** RH, — H.S **Julian Day** 2438046.
⊙ 296 09 08.7 3665.6

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P
26654	NGC 1502 z9	03 55.6	+62 04	I 12	II 206	.008	-12.5°C	19:24	20 02	1
26655	BD-47°781	03 06.4	-47°435	"	"	"	"	22:23	22:33	2
26656	" +30°1675	09 20.6	+30° 02	"	"	.016	-12.5	00 27	0206	2
26657	" +29°1807	09 24.6	29 33	"	"	"	"	02 30	26 16	4
	Time	1	07.15			"				
	Jan 21, Hd L.									
26657T	Stray spectra			I-25	II 40	long 008	-11	Sl at dec +35° Hr angle 2¼ h E		2

Dome Temp. +10° F

Focus 12.66

Dome Temp.

Transparency Conditions

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
5 1.25	-62° 13'	2	10.26	B3	3-3-3	set 5 OB Prog Page 26 seq 9 {3177 3247	fair
23 50	-47° 59'	2	8.5	K	2-3-2	set 5 Eclipse Binary (F) seq 9 {3205 3275	fair
29 12		1-2	9.73	F0	2-1-2	" 2 KAFS " 10 {3300 3370	fair
29 15		1	9.09	F5	2-1-2	" 5 " Hazy Tri-Cloud 10 {3387 3457	1 star
					6/4	" 9	

I.R.H. Loaded West Spatter

Blue sky at 15.30 Exposures 1, 2, 4, 6, 8, 10, 12 Secs. I-25 Focus 15.03 Tilt 23.15

I-12 Focus 12.66 Tilt 20.35

Changed back to I-12

245

Date Jan ~~20/21~~ 21/22 1963 Observer ② FL ① RM VAB Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P
239-2232	ξ^2 Cet	0226.0	+0817		5/6/33	20		18:05		
239-2233	"	"	"		"	"		18:20		
239-2234	λ Cet	0300.5	+0356		5/6/33	28		18:45		
239-2235	"	"	"		"			1855		
239-2236	R 84	0338.4	-0320		7/4/33	28		1915		
239-2237	"	"	"		"	"		1925	2x+Sky	
239-2238	Hy #63	0423.6	+1642		7/5/33	28		1950		
239-2239	"	"	"		"	"		2000	2x+Sky	
239-2240	Hy #64	0423.8	+1638		7/5/33	28		2015		
239-2241	"	"	"		"	"		2025		
239-2242	Hy #73	0426.0	+1710		7/5/33			2045		
239-2243	"	"	"		"			2055	2x+Sky	
239-2244	1779	0527.8	-2433		8/5/33	28		2125	2x+Sky	
239-2245	R 147	0617.0	-1450		7/5/33	28		2155		
239-2246	"	"						2205	2x+Sky	
239-2247	γ Gem	0635.4	+1626		5/4/33	28		2233		

Dome Temp. ..... CO2 in 16:00

Focus 700V

Dome Temp. .....

Transparency Conditions clear in Zenith

22:20 cloud bank in S. Cumuli low in S. and W.

windy! cannot work in West

Fine based

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0.28 E		10"	4.27	B9III	E.	ST windy! } stars blown out of	
0.13 E		8"	"	"	E.	ST windy }	
0.35 E		7"	2.8	M2III		MKΔ	
0.25 E		"				"	
0.35 E		7"	6.68	F9V		ΔHV	
0.25 E			"	"		"	
0.45 E		10"	8.06	G2V		ΔMK	
0.35 E						"	
0.20 E		7"	8.12	G2V		ΔMK	
0.10 E			"	"		"	
0.10 W			7.85	G2V		ΔMK	
0.20 W			-	-		"	
0.05 E + 0.07 W			8.39	V		⊕	
0.30 E			8.08	G2III		ΔHV no lines!	
0.20 E			-	"		" also Test run at 7/6/33	
0.10 E		6"	1.92	A0V		Ext. ST	

247

Date ~~Jan 20/21~~ 21/22 Nov/Dec 1963 **Observer** FL WJB — (Sq Hr) **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
239-2248	Q Gem	0726.5	+31.52		6/4/33	28		2255		

Dome Temp. .....

Focus .....

Dome Temp. 0°F

Transparency Conditions Fine
clouds low in S.
rising
Clouded out 23:00

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0.40E				FOV		MKA clouded out	
						Hopeless after Midnight	
						1 P.H. Pooled	

249

Date Mar - June 1963 Jan 28-29 **Observer** MR - HR DM 39 **Julian Day** 2438058. ⊙ 308 21 44.6 3657.7

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I
26658	BD 47°781	03h 06m.4	47° 43'.5	I-12	IIa-O	.012	-8.6	18:42	21:33	1
26659	HD 37736	05h 35m	44° 48'	I-12	"	.012	-6.5	21:52	22:46	2
26660	HD 57742	7h 17m.5	166° 32	I-12	"	.008	-6.5	23:09	23:30	3
26661	HD 58661	7h 21.5	148 24	"	"	.004	-6.7	23:57	00:09	4
26662	HD 87271	09h 58m.8	+12 07	"	"		-6.5	00:31	00:58	1
26663	" 100150	11h 26m.4	+18° 19'	"	"		-6.0	01:28	01:58	2
26664	" 98153	11h 06m.4	+27 54	"	"		-6.0	02:09	02:23	
26665	BD 30°2175	11h 28m.8	+28° 51	"	"		-6.2	03:42	04:12	
	Prism Test	OOB		"	"					

Dome Temp. 8°F

Focus 12.66

Dome Temp.

Transparency Conditions

06 Clouds

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS				Quality
[illegible] W	47°57	0	8.5	K	2-2-2	Set 5	F-EB	Dust in lens on centering	10 {3465, 3539}	
1:21 W	44°49'	1	7.73	A2	2-2-2	Set 5	KA 6x6	dust blocks contact in lens switch	10 {3546, 3616}	strong
0:24 W	66°22'	1	6.27	B9	3-3-3	Set 5	BB-B9		8 {3639, 3647}	fine
[illegible] W	48°13'	1	[illegible]	A-Fp	3-6	Set 2	B8-B9		8 {3657, 3662}	fine
20 45 E	11°48'	1	7.04	A0	3-6	" 5	KA 8X8		8 {3681, 3691}	fine
0:24 E	17°54'	0	6.97	A0	3-3-3	" "	" "		8 {3696, 3705}	l. strong
23 37 E	28°30'	0	6.66	A2	3-3-3	" "	" "		8 {3707, 3717}	fine
3:55 W	29°34	0-1	9.78	G5	3-3-3	" 5	KA F5 *		10 {3732, 3738}	fine
					1/6	" 9				OK

4 A.H. Loaded +8

Jan 30-31/63 Rotted [illegible] to [illegible]
Motion in [illegible] prevents
[illegible] 0330 Hr

251

Date Thurs Fri Jan 31 Feb 1/6 **Observer** L — H.S **Julian Day** 2438061.
⊙ 311 24 33.9 3653.9

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I
26666	B.D. +47 781	03 06.4	47 43.5	I-12½	EIIAoB	Set .012	-7.5	18 39	21 39	1
26667	H.D. 46056	06 26.0	04 54	"	"	.008	-7.5	22 02	23 26	2
26668	H.D. 82011	09 24.2	30 23	"	"	.016	-7.5	23 38	05 04	3
						"				

Dome Temp. +12°F

Focus 12.66

Dome Temp.

Transparency Conditions Good

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2 55 W	47 57	0	8.5	K:	1½-1½	Eclipsing Bin. Seq. 8 {3812 3820	
1 24 W	04 52	0	7.7	O8	3-3-3	number on plate wrong OB: prog " 8 {3822 3832	weak
[illegible]	30 12	0-1	12.9	G9	1½-3	5 of 5 KAFS. " 10 {3834 3913	l. strong
					4/3	5 of 5	OK
						IBH Pl.	

253

Date Sun Mon Feb 3/4/63 **Observer** SH I — RM **Julian Day** 2438064.
⊙ 314 27 11.3 3649.7

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.
26669	HD6582	01 01.6	+54 26	I12	IIaO	.008	-9°C	19 19	20h 21	4
								20 24	20 57	
								20 59	21 08	
		21h30	-22h-	observed		♂ -	no	detail	possible	
26670	HD 42807	06 07.7	+10 40	I 12	IIaOb	.008	-9°C	22 33	00 04	1
								00 06	01 24	
26671	HD 82855	09 29.7	+36 16	I 12	IIaob	.008	-9°C	01 58	02 47	2
	"							02 45	03 15	
	"							03 16	03 30	
		No Focus	ted,	once	plate	wounded.				

Dome Temp. +5°F

Focus 12.66

Dome Temp. 0°F

Transparency Conditions 19h30 - Rather poor / variable
23:30 - some high cloud drifts by
from 01 00 - - clouds drifting by most of night

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS				Quality
W3h53	+54 44	-2	6.1	G5V	3-3-3	LUM. STD STAR	Set 2	Lens 6	+ {3927, 3931}	too strong
W4h30					3-3-3	μ Cas.	Set 4	"	2 {3932, 3934}	strong
W4h41					3 6	counting too slow	Set 6	"	½ {3935, 3935½}	l. weak
(opposition)			-	RA	Jumps ~~are~~ caused	some delay				
1 2h 52		-2	7.24	dG5	3-3-3	LUM. STD. STAR	Set 2	Lens 7	{3937, 3941}	strong
1 4h 12					3-3-3	(Toofa. west)	Set 4	Lens 7	{3945, 3949}	fine
W 1h 53	-35°59	-2	6.22	G5V	3-3-3	LUM STD STARS	Set 2	Lens 6	{3949, 3953}	strong
W 2 22					3-3-3		Set 4	"	{3954, 3956½}	fine
W 2.35					3-3-3		Set 6	"	{3957, 3958}	l. weak
						Clouds increased				
						Closed up at 04:00				
						2 PH loaded				

255

Date Fr/Sat Feb 8/9 1963 Observer vdB Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H
240-2249	ζ^2 Cet	02 26 0	+08 17		5/6/33	28		18 25		
240-2250	α Cet	03 00 5	+03 56		5/6/33	28		1840		
240-2251	"	"	"		"	"		1855		
240-2252	κ Cet	03 17 3	+03 13		6/5/33	28		1910		
240-2253		"	"		"	"		1920		
240-2254	16 Per	02 48 0	+38 04		6/4/33	28		1940		
240-2255	"	"	"		"	"		1950		
240-2256	θ Per	02 41.5	+49 04		6/4/33	28		2002		
240-2257	"	"	"		"	"		2012		
240-2258	L Per	03 06 1	+49 29		6/4/33	28		2105		
240-2259	"	"	"		"			2115		
240-2260	λ Aur	05 16 3	+40 05		6/4/33	28		2125		
240-2261	"	"	"		"	"		2135		
240-2262	R III	04 49 9	+45 47		7/4/33	28		2155		
240-2263	"	"	"		"	"		2205	2x15 sec	

Dome Temp. ..... CO2 i- 17:15
Focus ..... V = 700
Dome Temp. .....

Transparency Conditions ..... Perfect, seeing very good

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
108		15"	4.27	B9III		EXT. ST. Some twilight danger — not [illegible] end of first run	
0.50			2.8	A2III		Δ17K	
01:05		12"	"	"		"	
00 55			4.82	G5V		ΔMK	
0105							
0152		15"	4.72	F2III		ΔMK	
0202			"	"		"	
0223		15"	4.17	F7V		ΔMK	
0233			"	"		" < δ clamp broke down	
0258			4.17	G0V		ΔMK	
0308			"	"			
0112		10"	4.71	G0V		ΔMK	
0122			"	"			
0206		8"	6.97	G0V-VI		ΔHV	
0216			"			"	

cont →

257

Date Fri/Sat Feb 8/9 1963 cont **Observer** WD - RM **Julian Day** 2438069.
0319 31 06.3 3643.1

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H
240-2264	R164	07 13.1	+47 19		8/5/33	28		22 25		
240-2265	"	"	"		"	"		22 35		
240-2266	ρ Gem	07 26.5	+31 52		6/4/33	28		22 50		
240-2267	"	"	"		"	"		23 00		
240-2268	Mars	09h 10m	+21° 15'		5/5/33	SLIT		23 20	51 ↔ 34	
240-2269	"	"	"		"	"		23 40	41 ↔ 38	
240-2270	"	"	"		"	"		23 45	41 ↔ 38	
26672	HD 82255	09 29.7	+36° 16'	I 12	II aob	005"	-14°	00:22	00:36	3
	"							00:38	00:49	
	"							00:46	00:49	
26673	HD 131511	14 48.9	+19° 34'	I 12	II aob	.008"	-14°	01:05	02:18	4
	"							02:21	02:43	
	"							02:45	02 51	

Dome Temp. + 5° F

Focus 12.66

Dome Temp.

Transparency Conditions Perfect

Full moon

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
00:12 W		7"	5.58	G0V		ΔHV	
00 22 W		"	"	"		"	
00 23 W		7"		F0V		ΔMK	
00 33 W				"		"	
00 40 E		—				Slit used - Drifted	
00 20 E		—		—		(r)	
00 15 E		—		—		(r)	
0.01 W	+36° 51'	1	6.22	G8 III-IV	3-3-3	LUM STD STARS Set 2 Area 6 {4004 4009} 4	
00 09 W					3-3-3	Set 4 " {4009 4011} 3	
00 14 W					3-3-3	Set 6 " {4012 4011} 4	
0333 E	+19° 17'	1	7.0	K1 V	3-3	LUM. STD. STARS Set 2 Area 7 {4013 4023} 3	
03 10 E					3-3-3	— " — Set 4 Area 7 {4024 4028} 4	
03 02 E					3	— " — Set 6 {4012 4011} 4	
						cont'd →	

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Date FRI-SAT FEB 8-9 1963 Observer RM. Julian Day 2438069.
⊙319 31 06.3 3643.1

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
26674	HD 131151	14 46.3	+19° 31'	I 12	IIaob	.008"	-14°C	03 07	03 16	1
	"							03 19	03 22	
	"							03 25	03 28	
26675	HD 114 762	13:07.5	+18° 02'	"	"	"	-14°C	03 58	04:30	2
26676	HD 107276	12 14.9	+29 01	"	"	"	-14°C	04:54	05:09	3
26677	HD 158614	17 25.2	-00 59	"	"	"	-14°C	05:34	05:51	4
	"							05:53	05 59	
	"							06:01	06:05	
26678	168 723	18 16.1	-02 55	"	"	"	-14°C	06:25	06:28	1
	"							06:31	06 33	
	"							06:35	06:37	
	Focus Test		O.T.13.							

Dome Temp. + 5° F

Transparency Conditions

Focus

Dome Temp. + 5° F

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS				Quality
02:34E	+ 19° 13'	00	5.4	G8 V	3-3-3	LUM STD STARS	Set 2	Seq. 5	4035, 4039 (3)	[illegible]
02:28E					3-3-3	appeared as double in 74 exposures	Set 4	"	4041, 4043 (2)	[illegible]
02:23E					3-3-3	look blighted	Set 6		4048, 4046 (1)	[illegible]
00:19W	+ 17° 41'	0	8.2	F7	3-3-3	STD. VEL. STARS	Set 5	Seq. 8	4051, 4061 (10)	[illegible]
01:50W	+ 28° 40'	2	6.59	A2	3-3-3	KA 8x8 PROG	Set 5	Seq. 7	4064, 4066 (2)	[illegible]
02:38E	- 1° 2'	2	5.6	G8 III	3-3-3	LUM STD STARS	Set 2	Seq. 6	4069, 4073 (4)	[illegible]
02:30E					3-3-3		Set 4	"	4074, 4076 (2)	[illegible]
02:24E					3-3-3		Set 6	"	4077, 4078 (1)	[illegible]
02:52E	- 02° 54'	2	4.2	K0 II-III	3-3-3	LUM. STD. STARS	Set 2	Seq. 4	4031, [illegible] (2)	[illegible]
02 47E					3-3-3		Set 4	"	4036, 4037 (1)	[illegible]
02:43E					3-3-3		Set 6	"	4038, 4039.5 (2)	[illegible]
					11-8		Set 9			OK

1 PH loaded.

261

Feb 11-12, MON-TUE

Date Feb Tue 12 1963 **Observer** R.M. **Julian Day** 2438072.
⊙ 322 33 12.0 3639.4

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
26679.	HD 131511	14 48.9	-19°34'	I 12	IIaoh	.008"	-5°c	02:45	04:45	2
								04:46	05:16	
								05:19	05:37	
26680	HD 131156	14 46.8	-19°31'	"	"	"	-5°c	05:48	06:04	2
								06:05	06:13	
								06:14	06:20	
	Focus Test.		OTK							

Dome Temp. 715°E

Focus 12.64

Dome Temp.

Transparency Conditions Very Poor!

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0:57 E	+19°15'	-3	7.0	K IV	3-3-3	LUM STD STARS. Set 2 seq 7 {4149, 4150} 5	strong
0:22 E		-4			3-3-3	Set 4 " {4151, 4155} 4	fine
0:03 E					3-3-3	Set 6 " {4156, 4158} 1	l. wk.
0:25 W	+19°15'	-3	5.4	G8 IV	3-3-3	LUM STD STARS Set 2 seq 5 {4160, 4164} 4	strong
0:34 W					3-3-3	Set 4 " {4165, 4167} 2	l. strong guid in vio.
0:42 W					3-3-3	Set 6 " {4168, 4169} 2	fine
					11-8	Set 9.	

3 PH Loaded.

263

Date Fr/Sat Feb 15/16 1963 **Observer** DF vdB **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
241-2271	36 Per	03 29.7	+45° 55'		6/5/33	28		18:40		
-2272	"	"						1850		
241-2273	BD +47° 781	03 10.9	+47 56		8/3/33	28		1910		
241-2274	HR 1327	04 17.1	+65 05		6/5/33	28		1927		
241-2275	"	"			"	"		1937	+sky = 200	
241-2276	M 79	05 22.8	-24 33		8/5/40	28		——		
241-2277	λ Aur	05 16.3	+40 05		6/5/33	28		2025		
241-2278	"	"	"		"	"		2035		
241-2279	R 147	06 17.0	-14 50		7/5/33	28 ✓		2100	52 → 34	
241-2280	"	"	"		"	"		2125	45 → 55	
241-2281	γ Gem	06 35.4	+16 26		5/4/33	28		2144		
241-2282	R 164	07 13.1	+47 19		6/5/33	28		2210		
~~241-2283~~	"	"	"							

Dome Temp. ..... CO_2 in 1755

Focus ..... V = 700

Dome Temp. .....

Transparency Conditions .....very Fine

22:10 isolated clouds

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
00 37 W		15"	5.4	F4III		MKΔ seeing very poor	
00 47			"	"			
		10"	8.5	~K		For: Fitzgerald	
00 35 W		10"	5.4	S5III		ΔMK	
00 45 W		"	"	"		ΔMK	
			8.39	V		⊕ instrumental difficulties	
0.40 W			4.71	G0V		ΔHV	
0.50 W			"	"		"	
0.20 W			8.08	G2III		ΔHV	
0.40 W			"	"		"	
0.38 W			1.93	A0IV		EXT. ST.	
0.25			5.58	G0V		ΔHV isolated cum clouds offset from	
			"	"		" clouded out	

may have measured Resolve not voting!

265

vol 3

Date Sat/Sun Feb 16/17 1963 **Observer** F **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H
242-2283	δ Tau	04207	+1726		5/6/33	28		1837		
2284	"	"	"		"	"		1847		
2285	ε Tau	04263	+1906		5/6/33	28		1900		
2286	"	"	"		"	"		1910		
2287	R 102	04272	+1349		7/6/33	28		1925		
2288	"	"	"		"	"		1935	+5v	
2289A	λ Aur	05163	+4005		6/5/33	{28, 22, 14, 18, 36, 50, 42, 28}		2001	-2035	
2290	ρ Gem	07265	+3152		/33	28				
2291	"	"	"							

Dome Temp. .....

Focus .....

Dome Temp. .....

CO_2 in 1745
V = 700

Transparency Conditions ci Low (10°) in W
Zenith OK
1915 pos. not photoelectric

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0.12E		10"	393	K0 III		ΔMK	
0.02E		"	"	"		"	
0.05W		8"	3.54	K0 III		ΔMK	
0.15W		"	"	"		"	
0.32W		"	772	K2 III		ΔHV	
0.42W		"					
			471	G0V		ΔMK resolution = 8"	
		6"	418	F0V		ΔMK clouded out	
			"	"		"	

267

Date Sun/Mon Feb 24/25 53 **Observer** Ry - RM **Julian Day** 2438085.
0335 40 06.9 3621.7

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.
26681	HD 27371	4h 14.1	+15 23	I 12	IIaOB	.008	-4°C	19h 44	19h 54m	1
	"	"	"	"	"		"	20h 00	20h 08m	
	"	"	"	"	"	"	"	20h 13	20h 18m	
26682	HD 27697	4h 17.2	17° 18'	"	"	"	"	20h 43	21h 02	1
	"	"					"	21h 04	21h 18	
	"							21h 20	21h 25	1
26683	HD ~~65025~~ 64768	07h ~~51.6~~ 50.4	11° ~~16'~~ 04'	"	"	.012	"	22h 01	00 12:03	2
26684	HD 84059	9h 37.4	45° 11'	"	"	.008"	"	00 12.28	01:40	3
26685	HD 93044	10 39.6	+41° 50'	"			"	02:02	02:56	4
~~26686~~	~~HD 40512~~	~~10 21.9~~	~~+11 49~~					~~03:10~~	~~04:36~~	1
26686	HD 155614	17 25.2	-00 59	"	"	"	"	05:05	06:01	2
								06:11	06:27	

FOCUS TEST OTB

#26683 – finder field incorrect hence wrong star observed

Dome Temp. 17°F

Focus 12.66

Dome Temp.

Transparency Conditions — fair to good

-23h - passing cloud

03:00 clouds in south.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS			Quality
1h 38W	15° 33'	-1	4.60	Ko III	3-3-3	LUM STD STAR γ Tau	Set 2; Lens 5	4172 4176	[illegible]
1h 50W	"	-1	"	"	9		Set 5; "	4177 4179 4186	fine good
2h 03W	"	-1	"	"	9		Set 8 "	4187	fine
2h 43W	17° 27'	"	4.72	Ko III	3-3-3	LUM STD δ TAU	Set 2 "	4192 4196	strong
2h 53W	"	"	"	"	9		Set 5 "	4197 4198	strong
3h 05W	"	"	"	"	9		Set 8 "	4190 4191	fine
2.11 W	11° 06'	-1 → 0	9.4 8.7	K0 A3	3-3-3	~~F Hd Exp. Binary~~ Set 5 Lens 9	3 res. exp.	4195 4235	[illegible]
2.10 W	-44° 53'	0	7.50	A8	3-3-3	KAFS Prog Page 2 Set 5 series 7		4245 4249	spots [illegible] fine
2.15 W	41° 29	0	7.35	F 0	3-3-3	KA 8xE Prog Set 5 series 7		4250 4254	3 [illegible]
~~4.13 W~~	~~11 29~~	~~-1~~	~~7.35~~	~~G5~~	~~3-3-3~~	~~" Tonkar Nest 6 fine " 5 " 7~~		4258 4259	[illegible]
1:12 E	-01° 03'	0	5.6	G IV-V	3-3-3	LUM STD STARS Set 2 " 5		4267 4271	[illegible]
0.59 E					3-3-3		Set 4 "	4276	fine
					11-8	Clouding over from south at dawn			

, PH loaded

11 in dark

269

Date Mon / Tues Feb 25/26/63 **Observer** MR - RM / SG - DM **Julian Day** 2438086.
0336 40 28.6 3619.9

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I.
26687	ε Tau	04 22.8	18° 58'	I-12	IaO-E	008	-8°C	19 07 30 5	19 07 32 10	3
	HD 28305	"	"	"	"	"		19 07 33 30	19 07 36 30	4
"	"	"	"	"	"	"		19 07 39 20	19 07 45 45	"
~~26688~~	~~HD 4[illegible]~~	~~04 33.5~~	~~[illegible]~~	"	"	"		~~09 20 00~~	~~09 54.5~~	~~4~~
~~26689~~	"	~~[illegible]~~	~~[illegible]~~	"	"	"		~~10 08~~	~~10 58~~	~~1~~
26690 88	~~[illegible]~~	7 11	+28 21	"	"	"	-8.8	23 11 53	00:52	2
26691 89	HD 71906	8 24.8	+37 36	"	"	"		01 13	02:12	3
26692 90	HD 101674 HINS 327	11 36.9	44° 42'	"	"	.016'		03:45	05:27	4
26693 91	HD 16957[illegible]	18 21.2	+05 02	"	"	.005'	-8.2	05:57	06:27	3
	Focus test									

Dome Temp. 19°F

Focus 12.66

Dome Temp.

Transparency Conditions Excellent.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS			Quality
01h 10m	~~[illegible]~~					Lum. Std.	Set 2	(8) {4320, 4325}	no comparison time
01h 15m		~~[illegible]~~			090		Set 5	(8) {4330, 4390}	fine
01h 24m	19.05'	0	4.58	K0			Set 8	(8) {4337, 4357}	no comparison & strong
~~01h 35m~~	~~+4° 44'~~	~~0~~	~~5.5~~	~~E7~~	~~3-3~~	~~B8 F9 Pm.~~	Set 5	4370, 4380	nothing on plate
~~02h 34m~~	~~+11° 43'~~	~~0~~	~~6.4~~	~~E0~~	~~3-3~~	"	Set 5	[illegible]	2 spectra superposed
3:53 W	+25° 14'	0	6.21	B9	6-3	B8-B9 Prog.	Set 5	[illegible] 4406	good
3:49 W	+37° 22'	0	7.0	B9	3.3	"	Set 5	[illegible] 4417	fine
3:54 W	+44° 18'	0	9.12	F5	2-1-2	KAF5 Prog Page 3	Set 5	4440, 4460	fine
1:50 E	-05° 02'	-0	6.54	B9	3-6	B8 B9	Set 5	4461, 4475	fine
									OK

1 PH loaded (Not Spotted) - ?

Hook came off head called Lex.

DEC head switch not working very well same like last entry.

Need more stars for 2nd half for poor Nights 9-10 hrs 6 & 5 hrs.

27

Date Tue/Wed Feb 26/27, 1963 **Observer** Lon **Julian Day** 2438087.

D337 40 48.5 3617.9

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
2663 92	HD 35633	05h 21.1	+34° 27'	I-12	Ia-O	.016	-8°C	1928	20h 40	1
2663 93	HD 35921	05h 23.0	+35° 8'	"	"	.008	-8.1°C	2100	21h 32	2
~~2663 94~~	~~HD 28305~~	~~[illegible]~~	~~[illegible]~~	"	"	"				
2663 94	HD 51688	6 533	+26 3	"	"	"	-9.4°C	2209	22 43	3
2663 95	HD 53744	7 1.1	+28 21	"	"	"	"	22h 52	23h 30	4

Dome Temp. +12°F

Transparency Conditions Clear

Focus 12 66

Dome Temp.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1h 26 W	+34° 29'	1	8.4	B0.5 IV	2-1-2	set 5 O-B Std Vel. sens. 8 4485 4495	no good – PH shifted during [illegible] no lines [illegible]
2h 15 W	+35° 21'	1	6.6	O9.5 III	3-3-3	set 5 " " sens. 8 4497 4507 emulsion scraped at λ4383	spots poor – spots poor –
			~~4.58~~	~~K0 III~~		~~set 1 [illegible] sens. 8~~	l strong
1h 55 W	+25° 57'	1-0	6.27	B9	3-3-3	B8-B9 program set 5 sens. 8 4509 4519	" "
2h 35 W	+28° 12'	1	6.21	B9	3-3-3	" " set 5 sens. 8 4521 emulsion scraped at λ3977	l strong
					11-8	Forest test set 10	OK

1 PH + 1 Box

273

(vol 3)

Date Th/Fr Feb 28/1 1963 **Observer** L RM. **Julian Day** 2438089.
0339 41 22.3 3613.9

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
243-2290	δ Tau	04207	+1726		5/6/33	28		1855		
243 2291	"	"	"		"	"		1905		
243-2292	ε Tau	04263	+1906		5/6/33	28		1915		
243 2293	"	"	"		"	"		1925		
243-2294	R102	04272	+1349		7/5/33	28		1935		
243 2295	"	"	"		"	"		1945	[illegible]	
243 2296	R147	06170	-1450		7/5/33	28		2010		
243 2297	"	"	"		"	"		2020	[illegible]	
243-2298	R164	07131	+4719		6/5/33	28		2045		
243-2299	"	"	"		"	"		2055		
243 2300	ρ Gem	07265	+3152		6/5 33	28		2110		
						03:30		Light clouds in most of sky		
2 66 ~~95~~ 96	HD 97420	11 07.6	-59° 41'	I 12	II aob	sec .016"		01 10	02 15	2
2 66 ~~97~~ 97	HD 136 [illegible]	15 17.7	+33° 17'	"	"	"		03:20	03:22	

Dome Temp. .....

Focus .....

Dome Temp. .....

V 700
CO_2 in 1745

D 5th old

Transparency Conditions ..... Fine, Some Cir. ov. Alt. Cu. Lowin NW.
21.00 clouds up to 30° alt. in N
21.30 clouds in zenith & end.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 50 W		8"	393	K0 III		ΔMK	
1.00			"	"		"	
1.10			3.54	K0 III		ΔMK	
1:20		10"	"	"		ΔMK	
1 30			7.72	K2 III		ΔHV	
1 40		7"	"	"		"	
0 10W			8.1	G2 III		ΔHV	
0 20W			"	"		2" time back 2x	
0 05E			558	G0V		ΔHV	
0 05W			"	"			
0 05W			418	F0V		ΔMK ← cloud danger — no longer p.e	
						Clouds and more clouds	
EXPOSURE	METER	very	tempt	...	tol:	after much dithering, it seems to be working: seeing is going to finish 4361	
01 22 W		-4	7.32	F6	2-	KAFS Prog. Pass 1 set 5 area 10 4361	tomorrow
01 20 W			5.34	B3	5	BSG: set 5 area 6 4363	time

275 Thu/Fri Feb 28/Mar 1 1963

Date Fri MAR 1 1963 **Observer** RM **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
26 ~~700~~ 698	HD 143187	15 53.9	-59° 12'	I:2	IIaO	008"	-8.3°C	04:10	04:27
26 ~~701~~ 699	HD 15570	17:05.2	+52° 32'	"	"	"		04:42	04:50
26 70~~7~~ 0	HD 172883	18:37.5	+52° 06'	"		"		05:19	05:23
26 70~~8~~ 1	HD 177410	18 59.5	+69° 23'	"	"	"	-5.3°C	05:41	06:19
	FOCUS TEST OTB								

Dome Temp. ... +11° F

Focus .....

Dome Temp. .....

Transparency Conditions .....

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
04:19	01:04E	+59° 00'	-2	6.15	B9	3-3-3	B8 B9 Big Set 5 Seq 6 4630 4632	fine
05:13	02:02E	+52° 25'	0	6.11	B9	3-3-3	B1 B9. Set 5 Seq 6 4636 4638	too weak
05:41	02:58E	+52° 09'	0	5.53	B9	3-3-3	B5 B9. Set 5 Seq 5 4641 4643	l weak
06:19	02:31E	+69° 26'	-1	6.31	B9	3-3-3	B5 B9 Set 5 Seq 6 4644	good
						11-8	Set 9.	v. + v. OK

3 PH loaded 4 in Box.

277

Date Sun/Mon Nov 3/4 1963 **Observer** vdB **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
244-2301	χ Aur	0516.3	+40°05'		6/5 33 6/6/	28 14		1920	

Dome Temp. .....

Focus .....

Dome Temp. .....

Transparency Conditions ...very MOST, prob. not pe

closed out 19:40

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	Thru clouds			4.71	G0V		MKΔ 28, 28, 14, 18, 22, 28 trace discarded	

279

Date Sun/Mon Mar 10/11 1963 **Observer** [illegible] **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
245-2302	λ Aur	05 16.3	+40 05		6 5/6 /33	var		1900	
2303	γ Gem	06 35.4	+16 26		5/6/33	28		1953	
2304	ρ Gem	07 26.5	+31 52		6/4/33	28		2025	
2305	ρ Gem	07 26.5	+31 52		"	"		2035	
2306	MARS	08 35	+22 33		6/4/33	28 SLIT		2050	
2307	MARS	08 35	+22 33		6/4/33	28		2055	
2308	π' UMa	08 35.9	+65 09		6/5/33	28		2110	
2309	π' UMa	08 35.9	+65 09		6/5/33	28		2130	
2310	ξ Leo	09 43.6	+23 58		5/5/33	28		2140	
2311	ξ Leo	09 43.6	+23 58		5/5/33	28		2150	
2312	20 LM.	09 58.9	+32 09		6/5/33	28		2203	
2313	20 LM.	09 58.9	+32 09		6/5/33	28		2213	+ SKY
2314	δ Leo	10 06.2	+12 10		4/5/33	28		2229	
2315	URANUS	10 19.6	+11 18		6/5/33	28		2255	+ SKY
2316	"	10 19.6	+11 18		6/5/33	28		2315	

Dome Temp. ..... CO_2 in 18:00
V = 700

Focus .....

Dome Temp. ..... Full Moon

Transparency Conditions ...very fine.....

280

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0 40W		7"-5"	4 04	G0V		SLIT 28 14 18 22 28 34 42 50 42 34 18 28	
0:23W			1.93	A0V		Ex ST.	
0:01W		7"	—	F0V		DMK	
0 11W		"		"		"	
0 45 E				G2V		SLIT	
0 40 E							
0 25 E			5.7(	G2V)		AMK	
0 10 E			"				
1:05E			31	G0IV		DMK (new edge)	
0:55E			3.1	G0IV		"	
0:57E		4"	5.35	G4V		AMK	
0:47E			5.35	G4V		"	
0:32E			1.25	B7V		EXT ST	
0:20 E		7"	5½	G2V		DMK!	
0:00		8"	5.5	G2V			

cont →

281 Cont

Date Sun/Mon Tue 10/11 1963 **Observer** [illegible] - RM **Julian Day** 2438099.

⊙ 349 42 07.3 3593.5

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	
245-2317	47 UMa	10 57.4	+40 38		6/5/33	28		2327		
2318	"	"	"		"	"		2345		
2319	Ceres	11 10.1	+23 48		7/4/33	28		2400	+sky	
2320	"	"	"		"			0025	"	
26702	HD 93044	10:39.6	+41°50'	I 12	II aob	.008"	-5°C	00:55	01:52	1
26703	HD 107276	12:14.9	+29°01'				-5.1°C	02:04	02:18	2
26704	HD 114762	13.07.5	+18°02'				-5.1°C	02:33	04 20	3
	Focus test	OTB.								

		MC	SC	SW	ME	
Clock corrections:	March 8	+16.2	-1.0	+47.1	-5.9	
	March 11	+15.5	-1.4	-3.9	-5.6	
	March 13	+0.9	-1.8	+19.1	-5.3	MC reset SW adjusted

Dome Temp. .....

Focus .....

Dome Temp. .....

Transparency Conditions Poor

02:00 clouds in north.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0:25 E			5.14	(S2V)		DYNE	
0:10 E			5.14	(S2V)		"	
0:03 E			7	S2V			
0.20 W			7	S2V			
02.06 W	+41° 30'	0	7.38	F0	3-3-3	KA 8×8 Prog. Set 5 Seq 7 4668 4672	
00:57 W	+28 38	-1	6.59	A2	3-3-3	KA 8×8 Prog Set 5 Seq 7 4673 4677	
02.07 W	+17 41	-1	8.2	F7	3-3-3	STD. VEL. STARS Set 5 Seq 9 4677 4719	
					" 5	Set 9	

4 PH loaded
0 in box

26704 is quite close to Full Moon.

04:30 Haze to thick to continue observing

03:00 Thin clouds drifting by Thick clouds in south.

03.30 Getting very hazy

283

Date th/Fr Mar 14/15 1962 **Observer** vdB – Hy **Julian Day** 2438103.

Dm ⊙ 353 41 30.5 3586.3

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P
246-2321	NGC 2392	07 26.8	+21 00		8/4/33	14		2036		
246-2322	π' UMa	08 35.9	+65 09		6/5/33	28		2122		
246-2323	π' UMa	08 35.9	+65 09		6/5/33	28		2132		
246-2324	R 183	07 58.2	+20 21		7/4/33	28		2145		
246-2325	R 183	07 58.2	+20 21		7/4/33	28		2155 + 5x		
246-2326	ε Leo	09 43.6	+23 56		5/5/33	28		2215		
246-2327	ε Leo	09 43.6	+23 56		5/5/33	28		2225		
246-2328	20 LMi	09 58.9	+32 09		6/5/33	28		2236		
246-2329	20 LMi	09 58.9	+32 09		6/5/33	28		2246		
246-2330	ε Leo	10 06.2	+12 10		4/6/33	14		2300		
246-2331	URANUS	10 18.5	+11 23		6/5/33	28		2310 + 5x		
246-2332	47 UMa	10 57.4	+40 38		6/5/33	28		2345		
~~246-2333~~	~~47 UMa~~	~~10 57.4~~	~~+40 38~~		~~6/5/33~~	~~28~~		2405		
26705	HD 107276	12h 14.9	+29° 01	5-12	II cob	008	-28	1.31	0153	
26706	HD 126246	14h 19.3	+11° 42	"	"	"	-29	0210	0300	
26707	" 131816	14h 50.9	+45.43		"	"	-30	0314	0412	

Dome Temp. ..... V=700

Focus ..... CO_2 in 1700

Dome Temp. .....

Transparency Conditions ....very Fine .....

2357 cumulus clouds moving in

(Seeing too poor for Stellar work at Sunset)

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0:30 W			8			Plan. nebula + central Star	
0:00		10"	5.7	(S2V)		ΔHV	
0:10 W			5.7	(S2V)		"	
01:05 W			7.0	S8V		ΔHV	
01:15 W			7.0	S8V		ΔHV	
0:15 E			3.1	S0 II		ΔMK	
0:5 E		5"	3.1	S0 II		ΔMK	
0.05 E			5.31	S4 V		ΔHV	
0:05 W			5.31	S4V		ΔHV	
0:15 W		8"	12.5	B7V		EXT. ST	
0:21 W			5.5	S7V			
0:10 W			5.14	S1V		ΔMK clouds!	
0:30 W			5.14	S2V		ΔMK	
00:50 W	+23 9	0-1	6.59	A2	3-3-3	Set 5 KA 8X2 #7 4751 4747	
00:07 E	+11° 22	0-1	7.12	F5	33-3	" " " " South following #0 4752 4762	
0:12 W	45 26	0-1	7.64	F3	33-3	" " KA F3 #8 4763 4773	

285

Date Mar 14-15/63 Cont'd. **Observer** Dm Hr **Julian Day** 2438103.
0353 41 30.5 3586.3

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P
~~26708~~	~~HD 161961~~	~~17h 43.4~~	~~-62:09~~	~~I-12~~	~~IIaD~~	.012	-2.8	0430	0510	7
26708	HD 144579	16 01.5	+39 24	"	"	.008	-2.9	0519	0549	1
	Focus Test		0013	"	"	"				
		MC	SC	SW	ME					
	March 15	+0.7s	-2.1s	+26.6s	-5.2s					
	18	-0.3	-3.3	-1.0	-5.3	SW retorted				
	20	-0.5	-4.0	+1.3	-5.9					

Dome Temp. +21°F

Focus

Dome Temp.

Transparency Conditions Good.

286

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
						PLATE LOADED BACKWARDS	
~~0125E~~	~~-0212~~	~~0~~ 1	~~8.2~~	~~B0~~	~~2-2-2~~	~~Set 5~~ Radcliffe OB. #3 4776 4786	no good
0059W	3914	1	7.2	G8	3-6-	" " STD. Vel. #3 4788 4808	fine 1 star
					10/7	" 9	OK cov
						1 P.H. +10	

287.

Date Mar 15/16 Fri/Sat '63 **Observer** vaB **Julian Day** 2438104.

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P
247-2333	ζ Gem	7 01.1	+20 39		6/4/33	28		1924		
247-2334	PALLAS	6 36.0	-10 12		7/5/33	28		1950	+sky	
247-2335	"	"	"		7/6/33	28		2000	+sky	
247-2336	R183	07 58.2	+29 21		7/4/33	28		2015		
247-2337	R183	07 58.2	+29 21		7/4/33	28		2025	+sky	
247-2338	R183	07 58.2	+29 21		7/5/33	28		2035	+sky	

Dome Temp. .....

Focus .....

Dome Temp. .....

CO_2 in 1900
700V

Transparency Conditions ...thin Ci over entire sky, not p.c.

288

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0:15E			37V	C50Var		Experimental	
030W			65	(92V)	⊙		
			65	92V	⊙	must be about 8th mag in reality	
0:25E			7.0	98V	ΔHV		
0:15E			7.0	98V	ΔHV		
0:25E			7.0	98V	ΔHV		
						closed ON 2100	
			MC	SC	SW	ME	
	March 22		$-1^s.5$	$-5^s.1$	$+2^s.1$	$-6^s.0$	
	25		-1.6	-7.3	-0.1	-5.2	SW restarted

289

Date Nov 18/19 Nov/Th 1963 **Observer** VDB / MR - Dm RM **Julian Day** 2438107.

⊙ 357 40 25.3 3579.4

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P
248-2339	8 Gem	06 35.4	+16 26		5/4/33	28		19 13		
248-2340	MARS	08 34	+17 17		4/5/33	28		19 37		
248-2341	R 178	07 51.2	+30 44		7/5/33	28		20 00		
248-2342	R 178	07 51.2	+30 44		7/5/33	28		20 10	+sky	
248-2343	R 210	08 59.3	-02 20		7/5/33	28		20 32		
248-2344	R 210	08 59.3	-02 20		7/5/33	28		20 42	+sky	
248-2345	R 221	09 27.6	+19 58		7/4/33	28		21 03		
248-2346	R 221	09 27.6	+19 58		7/4/33	28		21 20	+sky	
248-2347	R 243	10 25.8	+43 00		7/4/33	28		21 42		
248-2348	R 243	10 25.8	+43 00		7/4/33	28		21 52		
26709	HD 82719	09 28.6	163°.4'	12½	IIa OB	Sct .008	-4.5	23:57	1:39	2
26710	HD 93044	10 39.2	41°.5'	"	"	"	-4.5	1:47	3.15	2
26711	HD 126206	14 18.8	11° 42	"	"	"	-4.5	3.30	04:22	1
	Γ Gem	53	OTB.							

[illegible]

Dome Temp. 19°F

Focus ?

Dome Temp.

CO_2 in 1815, 700V

Transparency Conditions Fine, Ci up to 10° i-w. Strong NNW wind

21:00 thin Ci higher S.??

21:30 Night no longer quite pitch

22:00 Clouds

290

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0:10W		10-15"	193	A0IV		EXT ST. Poor Seeing	
01:22 E			-1	(G2V)		NO ENTRANCE Φ used	
015 E		8"	8.34	G2 V		ΔHK } Skip CN break, Giant??	
05 E			8.34	G2 V		"	
055 E			7.54	K2 III		ΔHV near edge of Φ at end	
045 E			7.34	K2 III		ΔHV	
045 E			6.50	G8 III		ΔHV	
030 E			6.56	G8 III		ΔHV	
1 10 E			6.4	G5 V		ΔHV	
100 E			6.4	G5 V		ΔHV	
3 33"	62°56'	0	7.56	F0	3-3-2	2.1 s K.A. 3x8 9. 4819 4859	good
4 01 W	21° 29'	0	7.38	F0	3-3-3	" " 9 4862 4903	
4:32"	-11° 23'	1	7.12	F5	3-3-3	" "	weak
					1-2		OK

Closed at 04:30 4F11 loaded 4 [illegible]

Date Mar 23/24 1963 Sat/Sun **Observer** vdB **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
249-2349	R 221	09 22.6	+19 58		7/5/33	28		21 50	
249-2350	"	"	"		"	28		22 00 + sky	
249-2351	12243	10 25.8	+49 00		7/4/33	28		22 18	
249-2352	"	"	"		"	"		22 28	
249-2353	47 UMa	10 57.4	+40 38		6/5/33	28		22 42	
249-2354	"	"	"		"			22 52	
249-2355	CERES	11 00 0	+24 20		7/5/33	28		23 07 + sky	
249-2356	"	"	"		7/5/33	28		23 29	
249-2357	Gm 1830	11 50.4	+38 06		7/4/33	28		23 44	
249-2358	"	"	"		"			23 58	
249-2359	VESTA	11 48	+14 13		7/4/33	28		00 15	
249-2360	"	"	"		7/4/33	28		00 32	

Sat-Sun March 23-24

1st introduction of SHUTTERS

on 4 camera [illegible]

[illegible] up after [illegible] Gray

Dome Temp. .....

Focus .....

Dome Temp. .....

CO_2 in 21.15
V = 700

Transparency Conditions ... Thin Ci till 2100
2130 Looks OK for Δ not p.
2300 sky possibly pe (hazy)
2400 fine

Seeing Very fine

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
020W		1"	6.56	S8VI		ΔHV	
030W			"	"			
020E		1"	6.4	S1V		ΔHV	
010E		"	"	"			
023E			5.1	S1V		ΔMK	
013E			"	"			
005W			6.5	(S2V)			
020W							
011E			6.5	S8Vp		ΔHV	
000					"	"	
025W			6.5	(S2V)			
042W			"	"			

293

Cont

Date Mar 23/24 1963 Sat/Sun **Observer** vdB **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.
249-2361	β CVn	12 31.9	+41 34		6/4/33	28	0047			
249-2362	"		"		6/5/33	28	0057			
249-2363	β Com	13 10.1	+28 04		6/5/33	28	0111			
249-2364	"	"	"		"		0121			
249-2365	R 308	13 10.6	+17 43		7/5/33	28	0135			
249-2366	"	"	"		7/5/33	28	0145	+54		
249-2367	this star is not really R324 but HD 120548 R 324	14 00.6	+10 29		7/5/33	28	0154			
249-2368	"	"	"		7/5/33	28	0214			
249-2369	α Boo	14 13.8	+19 24		4/6/33	28	0227			
249-2370	"	"	"		"	"	0237			
249-2371	R 329	14 25.2	+18 47		7/6/33	28	0248			
249-2372	"	"	"		"		0258	+54		
249-2373	ζ Boo	14 32.9	+20 55		6/5/33	28	0313			
249-2374	"				6/5/33	28	0323			
249-2375	R 373	15 41.1	+10 49		7/5/33	28	0336			
249-2376	R 373	"	"		7/5/33		0348			
~~249-2377~~	~~+ C B~~	~~15 33.0~~	~~+26 51~~		~~133~~					

Dome Temp. .....

Focus .....

Dome Temp. .....

Transparency Conditions ..... Fine

01:35 SKUMK!

03:50 thin cloud all over

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
00 08W		3"	4.3	G0V		ΔMK	
00 18W			"	"			
00 05E		5"	4.3	G0V		ΔMK	
00 05W			"	"		"	
00 18W			7.3	F9V		ΔHV	
00 28W			"	"		"	
00 05E			6.2	G0II or G0V		ΔHV!	
00 05W			"	"		" close to ⊕ edge	
00 05W		3"	0.0	K2III p		ΔHV	
00 15W			"	"			
00 20W		2"	8.2	K0III		ΔHV	
00 30W			"	"		"	
00 33W			4.5	F2V		ΔHV	
00 48W			"	"		"	
00 10E			7.2	SdF5		ΔHV	
00 00			"	"		" ← Cirrus clouds	
			2.21	~~A0V~~		~~ΔHV~~	

295

Ms Pa Dm Hw

Date Nov 28/29 + 1/Fr 1963 **Observer** vdB **Julian Day** 2438117.5

0 07 35 35.9 3559.6

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I
26701 (12)?	β Gem.	7 39.2	+28 16	I.12	IIa-O	1.008	7.1	8:20	8:20	
250-2377	R210	09 59.3	-2°20'	7/5/33			7.1	8:22	8:23	
							7.1	8:25	8:26	
250-2377	R210	09 59.3	-2 20	7/5/33	28		21 05			
250-2378	"	"	"	"			21 15			
250-2379	"	"	"	"			21 25	+sky		
250-2380	MARS	08 38	+21 39	4/5/33	28		21 43			
250-2381	R178	07 51.2	+30 44	7/5/33	28		22 03			
250-2382	"	"	"	"	"		22 13	+sky		
250-2383	GIUMa	11 38.9	+34 26	6/5/33	28		22 40			
250-2384	"	"	"	"			22 50			
250-2385	VESTA	11 44.2	+14°40'	7/4/33	28		23 04			
250-2386	"	"	"	"	"		23 30			
250-2387	ξ Vir	11 48.7	+10 20.0	6/4/33	28		23 50			
26712	HD 116501	12h 07.5m	34° 14'	I.12	IIa-O	.012	+7.0	0:44	2:34	1
26712	HD 116246 Fors 72 ST	12h 13.3	11° 42	"	"	"		3:23	8:03	

Dome Temp. 38°F
Focus 12.66
Dome Temp.

isolated Altocumu Fields.
CO_2 in 2050
V = 700
3 day old moon

Transparency Conditions: Sun/Moon (- poor but finally turned good enough to open up at ~20h40
Mar 24/25/73 - clouded out & closed up again 30 minutes later
2200 not pe.
2300 looks ok
2345 thin cloud cover

296
Py/I

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
0h 45m W	+28° 05'	7	2.21	K0III	9	1 yoss lum std	l. strong
0h 47m W					9	– spectrum superposed # 26713	
0h 50m W					9	2	strong
0 20W		3"	7.54	K2III		ΔHV Dr. Std out on 2d time	
0 30W		"	"	"		"	
0 40W		"	"	"		"	
1 20W		–	0	(G2V)		no cg	
2.23W		3"	8.34	G2VI		ΔHV new edge	
2 33W		"	"	"		" Traced 5x, vegetation	
0 30E				G8V		ΔMK	
0 10E		5"		"		"	2 PH. Loaded
0 25E			6.5	(G2V)			A Very Poor Night!
0 05E			"	"			
			3.6	F8V		ΔMK – cloud danger, no good!	
0 30 E	33° 53	0	7.7	K0III	2-2-2	MR. high velocity star.	5019 & 5041-3 superposed on nonuniform
2 51W	11° 21		7.12	F5	2-2-2 9/6	FA 8x8	5045 & 5052 fine

297

Date Sat/Sun March 30/31 **Observer** F vdB -Sq **Julian Day** 2438119.5

⊙ 09 34 12.8 3554.9

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I
2671.5 a	β Gem HD 62509	07 39.2	+28 16	I-12	IIaOB	.008	14°.8C	19 44	19 46	3
b	"							19 47	19 48	3
c	"							19 48	19 49	3
2671.6	HD 82719	09 28.6	+63 14	"	"	.008		20 32	21 24	4
251-2388	α Leo	10 06.2	+12 10	4/5/33		14'		21 35		
251-2389	URANUS	10 16.3	+11 35	6/5/33		28		21 54	+SV	
251-2390	η UMa	10 57.4	+40 38	6/5/33		28		22 20		
251-2391	CERES	10 55.5	+24 24	7/5/33		28		22 43	+SV	
251-2392	β Vir	11 48.7	+02 00	6/4/33		28		23 08		
251-2392	β Vir	" 48.7	+02 00	6/4/33		28		23 18		
251-2393	VESTA	11 42.2	+14 51	7/4/33		28		23 33	+SV	
251-2394	12285	12 13.2	-10 04	7/4/33		28		DOOG		

Dome Temp. 54° CO2 in 2100 700V 2115 Transparency Conditions V. Poor. black cloud in W. 298

Focus Hi Clouds at sunset, Smoky D 5d old V. Windy.

Dome Temp. clewed by strong wind looks OK 2100 2200 fine

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
00 27 W		-3	2.2	K0 III	9	Poor Luminosity. set 2 100% lens 4 (2) 5075 5077	very strong
00 10 W					9	set 5 50% " (1) 5078 5079	strong
00 20 W calc.					9	set 9 25% " (1) 5084	fine
0 01 W	+62 55	-2.0	7.6	F0	3-3-3	Dec slipping set 3 lens 8 (10) 5080 fine (fingerprints)	
0 10 E		7"	1.25	B7V		Ext. ST.	
0.03 W			5.5	(G2V)		Drifted out.	slightly later/longer during 2nd half
0.15 E		10"	5.1	G2V		AMK seeing poor, Strong wind	
0 10 W		10"	7.1	(G2V)		" " "	
0.20 E		12"	3.6	F8V		AMK	
0 10 E			3.6	F8V		"	
0 15 W	+0.21	20"	6.5	(G2V)		Drifted out Just Some Seeing!	
0.15 W		15"	6.1	F6V		Seeing too poor to continue	
						S. Westbrook.	
						Adjusting Focus does not seem to	
		4 hr Guided				make improvement.	
		0 w/				20:00 V poor weather	

299

Date Sat / Sun March 30/31 **Observer** F Sq VIB **Julian Day** 2438119.5

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I
26717 L	HD 142763	15 51.2	+18 55	I-12	IIaO 3	016	10°C	02h 49m	03h 31m	1
26718 7	145001	16 03.6	+17 19.	I-12	"	016	10°C	04h 36m	05h 2[illegible]	2

Dome Temp. 40°F

Focus 12.66

Dome Temp.

Transparency Conditions

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
$0^h 05^m$ W	+18° 44'	-3	6.20	B9	2-1-2	B2-B9. Set 4 5128 5171	1 strong iron arc wk no no. on pl.
$01^h 16^m$ W		-3	6.1	G4	2-3	Std. Vd Set 2 5173 5200 ~~5198~~	fine but iron arc wk.
						Had to cut exposure considerably short	
						Had trouble with RA clamp all night but O.K. now.	
						Hartmann Test Set 8	
						OTB 12s ← OTB not complete	
						ITA 8s	
						2 PH Corded.	

301

Date Sun/Mon Mar 31/April 1 1963 **Observer** Py I- **Julian Day** 2438120.5

⊙ 10 33 27.7 3552.6

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
26718	HD 52860	06 57.7	+47 54	I-12½	IIaOB	008	8°C	20:06	20:45	3
26719	HD 74393	08 38.7	+14 42	"	"	"	"	21 19	2240	4

Focus Test 078/17A

Clock Correction:	MC	SC	SW	ME
March 27	$-2^s.3$	$-8^s.5$	$-0^s.1$	$-5^s.8$
29	-3.1	-9.6	+1.6	-6.0
April 1	-3.8	-10.9	+6.4	-5.6
3	-4.6	-11.7	+13.0	-5.9

Dome Temp. 42°F

Focus 12.66

Dome Temp. 36°F

Transparency Conditions - Poor; Cloud in SW
- Someone turned off the power - lifting
- Exp. meter wouldn't balance; spoke to
Hr + got straightened out - 19h50

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
2.00W	+47 49	-2	6.34	B9	3+3+3	B8-B9 program HR2645 Set 5 Seq 5268 5270	fine (1 ∆)
2.15W	+4.28	-2	628	B8	3+3+3	" HR 3458 Set 5 Seq 5271 5543	fine (1 ∆)
							OK
					12/8	Set 8	

21h30 - high cloud
22h45 - double to dome up
4 PM loaded

- flashlight below Sun
- integrate Nomenclature - pointing arm broke

303 (vdB) Pa did not show

Date Apr 4/5 Th/Fr 1963 **Observer** L Fy **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H
252-2395	α Leo	10 06 2	+12 10		4/6/33	14		2021		
252-2396	Mars	842	+21 04		4/5/33	28		2052		
252-2397	61 UMa	11 38 9	+34 26		6/5/33	28		2119		
252-2398	"		"		"	"		21 29	+sky	
252-2399	gmb 1830	11 50 4	+38 06		7/4/33	28		2145	+sky	
252-2400	"	"	"		"	"		2213		
252-2401	β Vir	1 48 7	+02 00		6/4/33	28		2235		
252-2402	"	"	"		"	"		2245		
252-2403	R 285	12 13 2	−10 04		6/6/33	28		2301		
252-2404	"	"			"			2314	+sky	
252-2405	β CVn	12 31 9	+41 34		5/6/33	28		2346		
252-2406	"	"			6/4/33	"		2356		
252-2407	β Com	13 10·1	+28 04		6/4/33			00 08		
252-2408	"	"		"	"			00 18		
252-2409	R 324	14 00 6	+10 23		7/5/33			0033	+sky	
252-2410	"		"	"				0058		

Dome Temp. .....

Focus .....

Dome Temp. .....

CO_2 in 1950

V = 700

Transparency Conditions ....Fair ; Strong N. wind ; Arctic Air

10 day moon

2300 per sec

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1 05 E		6"	125	B7S		Ext st. near moon	
0 50 W		—	0	(G2V)		no g	
01:43 E		6"		G8 V		ΔMK	
01 33 E				"		"	
01 24 E		8"	6.5	G8Vp		ΔHV	
01 00 E		"	"	"		"	
00 37 E		7"	3.6	F8V		ΔMK	
30 27 E		"	"	"		"	
00 36 E			6.1	F6V		ΔHV	
0022 E			"	"		"	
00 10 E			4.3	G0V		ΔMK	
0000			"	"		"	
0 15 E			4.3	G0V		ΔMK	
0 15 E		5"	"	"		"	
0045 E			6.2	G0 V?		ΔHV	
0035 E			"	"		"	

305

Date April 5 Cont **Observer** [illegible] **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.H.
252-2411	2 B00	14 138	+19 24		4/5/33	28		0112		
252-2412	"	"	"		"			0122		
~~252-2413~~	~~0 B00~~	~~14 329~~	~~+29 55~~		~~133~~	~~28~~	Clouded	Out		

Dome Temp. .....

Focus .....

Dome Temp. .....

Transparency Conditions ...0100 pulsar

0125 Cumuli all over ✓
wind increasing

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
026E			0.0	K2III		△H✓	
016E			"	"		"	
			4.5	F2V			

Date Apr 5/6 1963 Fr/Sat **Observer** vdB **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
253-2413	8 Gem	0635.4	+1626		5/4/33	28		1943	
253-2414	Mars	0842	+2111		4/5/33	28		2005	
253-2415	11 LMi	0933.7	+3559		6/5/33	28		2034	
253-2416	11 LMi	"	"		"			2044	
253-2417	20 LMi	0958.9	+3209		6/5/33	28		2054	
253-2418	"	"	"		"			2104	
253-2419	61 UMa	1138.9	+3426		6/5/33	28		2121	
253-2420	"	"	"		"			2131	
253-2421	Smb 1830	1150.4	+3806		7/4/33	28		2147	+sky
253-2422	R 285	1213.2	-1004		7/4/33	28		2219	
253-2423	R 285	"	"		"	"		2229	+sky
253-2424	R 308	1310.6	+1745		7/5/33	28		2253	
253-2425	"	"	"		"	"		2303	+sky
253-2426	70 Vir	1326.6	+1400		6/5/33	28		2323	
253-2427	"	"	"		"	"		2333	

Dome Temp. ..... CO_2 in 1900

Focus ..... V = 700

Dome Temp. ..... NIGHT OK TILL 2400

Transparency Conditions .... OK. isolated altocum in west

☾ 11d old moon Ci. very low in west

2130 sky very fine, slight haze near ground

2230 Altocum 10° ALT in S.

2300 [illegible] moving up from South

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	01 50W		6"	1 93	A0 V		EXTST	
	0.06W			0	(G7 V)		no g	
	0 20E		5"	5.47	G8 IV-V		ΔMK	
	0 10E		"	"	"			
	0 22E		6"	5.35	G4 V		ΔMK	
	0 12E			"	"			
	0137 E		6"		G8 V		ΔMK	
	0127 E							
	01:20 E		3"	6 5	G8 Vp		Δ4V	
	0 12E			6 1	F6 V		Δ11V	
	0 02 E			"	"		"	
	0135 E			7.3	F9 V		Δ4V	
	0125 E			4 [illegible]	"		"	
	0123 E			4 98	G5 V		ΔMK	
	0113 E							

309

Date Apr 5/6 cont **Observer** vdB **Julian Day**

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.
253-2428	η Boo	13 52.9	+18 36		5/5/33	28		23 50	
253-2429	"	"	"		"	"		24 00	
253-2430	σ Boo	14 32.9	+29 55		6/4/33	28		24 14	
253-2431	"	"	"		"			24 24	

Dome Temp. .....

Focus .....

Dome Temp. .....

Transparency Conditions .....
2330 Still pe.

Ending Time E.S.T.	Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
	0120E		5"	2.70	G0IV		ΔMK	
	0110E		"	"	"			
	0137E			4.5	F2V		ΔMK	
	0127E		"	"	"		"	

(over)

311

Date Apr 5/6 1963 **Observer** FL **Julian Day** 2438125.5

⊙ 15 29 07.5 3541.2

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.J.
26720	HD 142592	15 50.3	+45 15	12½	IIaD b	0.008	+40	02:12	03:48	1
	FOCUS TEST									

April 4/63
2 test plates developed in Acufine

Clock Corrections	MC	SC	SW	ME
April 5	-5.8	-13.1	+13.7	-7.9
9	-7.6	-15.2	-27.4	-6.9
11	-8.6	-16.3	-2.0	-5.4

Dome Temp. 34° F

Focus 12.66

Dome Temp.

Transparency Conditions Slight haze at about 1 [illegible]

312

Lots of trouble with R.A. clamp. wasted an hour before it worked satisfactorily.

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
$0^h 30^m$ W	45° 04'	0	9.25	A2	313+	IAFS Prog. Set 5; Seq 9; 5298, 5329	mm arc wk. fine [illegible]
						OTB/IEA : 12/8. OK	
						Closed down due to clouds at 03:45	

313

Date Sat + Sun April 6/7, 1962 **Observer** RM. **Julian Day** 2438126.5

⊙ 16 28 08.7 3539.2

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.J
26721	HD 107328	12 15.3	+03° 53'	I-12	II aob	set .016"	+8.5°C	00 ~~12~~ : 50	[illegible]	2
26722	HD 110501	12 37.5	~~+33 54'~~ +34 14'	"	"	"	"	01 : 45	[illegible]	3
26723	HD 121261	14 50.9	+15° 43'	"	"	"	"	03 : 08	[illegible]	4
	Focus test OTB					.005"				

Dome Temp. 42°

Focus 12.66

Dome Temp.

Transparency Conditions Very Hazy

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
1h.56 W	03° 28'	-1	6.1	K.	2-1-2	STD VEL STARS Set 5 Seq 8 5357 5377	v. strong
2.53 W	+33° 54'	-1	7.7	K0 II	2-1-2	MR High Vel Giants Sets Seq 8 5384 5304	l. strong
1 54 W	+15° 25'	-1	7.64	F3	2-1-2	KATS Prog Sets Seq 8 5407 5417	fine
					11-8	set 9.	OK
						Closed out 04.15	
						2PH loaded	
						now in darkroom	

315

Date Sun Mon Apr 7/8 1963 **Observer** (Py) VCB **Julian Day** 2438127.5

⊙ 17 27 07.9 3537.0

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I
254-2432	11 LMi	09 33.7	+35 59		6/5/33	28		19 45		
254-2433	"	"	"		"			19 55	+ sky	
254-2434	81 Cnc	09 10.3	+15 12		7/4/33	28		20 13		
254-2435	"	"	"			"		20 23	+ sky	
254-2436	α Leo	10 06.2	+12 10		4/6/33	14		20 42		
254-2437	URANUS	10 15.5	+11 39		6/5/33	28		21 03	+ sky	
254-2438	47 UMa	10 57.4	+40 38		6/5/33	28		21 27		
254-2439	Gmb 1830	11 50.4	+38 06		7/4/33	28		21 51	+ sky	
254-2440	θ UMa A	09 30.2	+51 52		5/5/33	28		22 22		
254-2441	"	"	"		"			22 32		
254-2442	70 Vir	13 26.6	+14 00		6/5/33	28		22 52		
254-2443	"	"	"					23 02	+ sky	
254-2444	η Boo	13 57.9	+18 36		5/5/33	28		23 18		
254-2445	"	"	"		"			23 28		
254-2446	61 Vir	13 16.5	−18 05		6/5/33	28		23 44		
254-2447	"	"	"		"			23 54	+ sky	

Dome Temp. .....

Focus .....

Dome Temp. .....

1845 set 700 V

NO CO2

21:30 ~~Robert: seeing better~~

Transparency Conditions Fine, Ci very low in W

Seeing very poor at first

Polar air, Moderate NW wind

Full Moon

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.		REMARKS	Quality
056E		10"	5.47	G8	IV-V	ΔMK		
046E		"	"		"			
007E		7"	6.5	K0	V	ΔMK		
003W			"	"		"		
035E		7"	1.25	B7	V	EXTST		
020E		—	5.5	(G2V)		—		
040E			5.1	G2V		ΔMK		
01:08E		7"	6.5	G8	Vp	ΔHV		
01:40W		8"	3.19	F6	IV	ΔMK		
0150W		"	"		"	"		
0146E		7"	4.98	G5	V	ΔMK		
0136E		"	"		"	"		
0146E		10"	2.70	G0	IV	ΔMK		
0136E		"						
0044E		8"	4.74	G6	V			
0034E			"	"				

317

Date Sun Mon April 7/8 1963 **Observer** RM **Julian Day** 2438127.5

0 17 27 07.9 3537.0

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I
26724	HD 90512	10 21.9	+11° 49'	I.12	IIa.b	.008"	+4.2°c	00:25	01:59	1
26725	HD 123782	14 04.6	+49°56'	"	"	"	+4.3°c	02:11	03:47	2
26726	HD 136244	15 14.5	+60°29'	"	"	.016"	+4.3°c	03:09	05:11	3
	Focus Test					.008"				

Dome Temp. 34°F

Focus 12.66

Dome Temp.

Transparency Conditions

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
						To Far West to give 20 counts 3432	
4 hr 19m	+11° 28'	O	7.38	G5 M2	3-6	KA 8×8 Prog Set 5 Seq 8 5437 5439	fine
1 hr 25m W	+49° 36'	O	6.8	F7	3-3-3	STD Vel Star. Set 5 Seq 8 5459 5465	fine
2 hr 40 W	+60° 12'	O	9.08	K3	2-1-2 11-8	KAFS Prog Set 5 Seq 10 5565 Set 9	focus test superimposed may be usable OK

one Focus test done on set 5 of last plate by mistake

3 PH loaded

more in dark room

319

Date Tues-Wed April 9/10 1963 **Observer** Ln D.G. - Hr **Julian Day** 2438129.5

0 19 24 59.9 3533.0

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I
26727	HD42807	06h 07.7	+10° 40'	I-12	IIaO b	Set .008	+4.6°C	19 50	20 44	4
26728	HD90512	10h 21.9	+11° 49'	"	"	"	+4.7°C	20 59	22 19	1
26729	HD 111226	12h 42.6	−24° 18'	"	"	"	+4.3°C	22 30	23 12	2
26730	HD 104155	12h 00.0	+47° 57'	"	"	Set .016	+4.4°C	23 26	0 32.6	3
	Focus Test & TB			"	"	"				

Dome Temp. 45° F

Focus 12, 66

Dome Temp.

Transparency Conditions Hazy - High Wind 3.20

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
3h 24 W	+10° 38'	0	7.24	dG5	3-3-3	very poor seeing set 2 Yoss Lum. Std. 25% transmitted sens 8 5596 5601	fine
3h 46 W	+10° 30'	0	7.38	G5	3-3-3	set 5 KA 8K8 sens 8 5602 5622	fine
0h 12 E	-24° 39'	0	7.1	B9	3-3-3	set 5 B8-B9 sens 8 5623 5631	fine
4h 16 W	-47° 36'	0-1	9.2	GIII	2-1-2	set 5 MR HV GiaII sens 9 5636 5708	fine
					6/4	" 9 3PH Loaded	OK

0325 Clouds + snow flurries

After 2 frustrating attempts, closed up + went home because of March winds in April.
RM.

321

Date Th/Fr Apr 11/12 1963 Observer [illegible] Julian Day

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.	P.I
255-2448	HD 75732	08 50.4	+28 28		6/5/33	28		19:54		
255-2449	"	"	"		6/6/33	"		2004		
255-2450	81 CnC	09 10.3	+15 12		6/6/33	28		20 18		
255-2451	"	"	"		"	"		20 28		
255-2452	HD 97334	11 10.4	+36 01		6/6/33	28		2051		
255-2453	"		"		"	"		2101 +sky		

Dome Temp. .....

Focus .....

Dome Temp. .....

CO2 in 1900
V = 700

Transparency Conditions Fine, some Ci near horizon and some Stratus low in N; fairly strong NW wind

20:30 a few isolated cloud patches

21:00 between large cloudbanks

Hour Angle End	Declination	Seeing	Ptg. Mag.	Sp.	Comp.	REMARKS	Quality
00 07 W		6"	5.97	dKO		ΔMK	
00 17 W			"	"		"	
00 14 W		4"	6.5	KO V		ΔMK	
00 24 W			"	"		"	
01 12 E		5"	6.32	StFg		ΔHV brightest of pair (N)	
01 02 E			"			"	
			21:30	Clouded out			
						Clear at midnight	
						Clouds by 1 a.m.	

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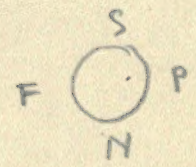
Date.....**Observer**.....**Julian Day**.....

Plate No.	Object	R.A. 1900	Declination 1900	Inst.	Emulsion	Slit	Temp.	Starting Time E.S.T.	Ending Time E.S.T.

Ending Time
E.S.T.



325

Chicago, Illinois

Telegram

WASHAGI 13013 USSPA 12387 6183/06018

15412 13308 URANI 12657 13171 07816

URANA 12233 1423// = 13 46013 61400 62300 41626

4171S

31716/1720 8181S 81830/1837 41910 31920/1935 URANA 12233

1423S 61400 62300 8181S 81830/1837 UMAGA 1262S 04133

44333 = 623//

signed

AGIWARN BUSTAN FT BELVOIR VA 131800Z

if O pull focus

326

1° right all the way 20^s 25" 008
prism Normal

2° move prism N
Move (1) half way up 16^s 25" 008

26
12233
04133
18007

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